

PRIMERS FOR SYNTHESIZING FULL-LENGTH cDNA AND THEIR USE

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FIELD OF THE INVENTION

The present invention relates to a polynucleotide encoding a novel protein, a protein encoded by the polynucleotide, and new uses of these.

BACKGROUND OF THE INVENTION

Currently, the sequencing projects, the determination and analysis of the genomic DNA of various living organisms have been in progress all over the world. The whole genomic sequences of more than 10 species of prokaryotes, a lower eukaryote, yeast, and a multicellular eukaryote, *C. elegans* are already determined. As to human genome, which is supposed to be composed of three thousand million base pairs, the world wide cooperative projects have been under way to analyze it, and the whole structure is predicted to be determined by the years 2002-2003. The aim of the determination of genomic sequence is to reveal the functions of all genes and their regulation and to understand living organisms as a network of interactions between genes, proteins, cells or individuals through deducing the information in a genome, which is a blueprint of the highly complicated living organisms. To understand living organisms by utilizing the genomic information from various species is not only important as an academic subject, but also socially significant from the viewpoint of industrial application.

However, determination of genomic sequences itself cannot identify the functions of all genes. For example, as for yeast, only the function of approximately half of the 6000 genes, which is predicted based on the genomic sequence, was able to be deduced. As for human, the number of the genes is predicted to be approximately one hundred thousand. Therefore, it is desirable to establish "a high throughput analysis system of the gene functions" which allows us to identify rapidly and efficiently the functions of vast amounts of the genes obtained by the genomic sequencing.

Many genes in the eukaryotic genome are split by introns into multiple exons. Thus, it is difficult to predict correctly the structure of encoded protein solely based on genomic information. In contrast, cDNA, which is produced from mRNA that lacks introns, encodes a protein as a single continuous amino acid sequence and allows us to identify the primary structure of the protein easily. In human cDNA research, to date, more than one million ESTs (Expression Sequence Tags) are publicly available, and the ESTs presumably cover not less than 80% of all human genes.

The information of ESTs is utilized for analyzing the structure of human genome, or for predicting the exon-regions of genomic sequences or their expression profile. However, many human ESTs have been derived from proximal regions to the 3'-end of cDNA, and information around the 5'-end of mRNA is extremely little. Among these human cDNAs, the number of the corresponding mRNAs whose encoding protein sequences are deduced is approximately 7000, and further, the number of full-length therein is only 5500. Thus, even including cDNA registered as EST, the percentage of human cDNA obtained so far is estimated to be 10-15% of all the genes.

It is possible to identify the transcription start site of mRNA on the genomic sequence based on the 5'-end sequence of a full-length cDNA, and to analyze factors involved in the stability of mRNA that is contained in the cDNA, or in its regulation of expression at the translation stage. Also, since a full-length cDNA contains ATG, the translation start site, in the 5'-region, it can be translated into a protein in a correct frame. Therefore, it is possible to produce a large amount of the protein encoded by the cDNA or to analyze biological activity of the expressed protein by utilizing an appropriate expression system. Thus, analysis of a full-length cDNA provides valuable information which complements the information from genome sequencing. Also, full-length cDNA clones that can be expressed are extremely valuable in empirical analysis of gene function and in industrial application.

Therefore, if a novel human full-length cDNA is isolated, it can be used for developing medicines for diseases in which the gene is involved. The protein encoded by the gene can be used as a drug by itself. Thus, it has great significance to obtain a full-length cDNA encoding a novel human protein.

In particular, human secretory proteins or membrane proteins would be useful by itself as a medicine like tissue plasminogen activator (TPA), or as a target of medicines like membrane receptors. In addition, genes for signal transduction-associated proteins (protein kinases, etc.), glycoprotein-associated proteins, transcription-associated proteins, etc. are genes whose relationships to human diseases have been elucidated. Moreover, genes for disease-associated proteins form a gene group rich in genes whose relationships to human diseases have been elucidated.

Therefore, it has great significance to isolate novel full-length cDNA clones of human, only few of which has been isolated. Especially, isolation of a novel cDNA clone encoding a secretory protein or membrane protein is desired since the protein itself would be useful as a medicine, and also the clones potentially include a gene associated with diseases. In addition, genes encoding proteins that are associated with signal transduction, glycoprotein, transcription, or diseases are expected to be useful as target molecules for therapy, or as medicines themselves. These genes form a gene group predicted to be strongly associated with diseases. Thus, identification of the full-length cDNA clones encoding those proteins has great significance.

SUMMARY OF THE INVENTION

An objective of the present invention is to provide a polynucleotide encoding a novel protein, a protein encoded by said polynucleotide, and novel usages of these.

The inventors have developed a method for efficiently cloning a human full-length cDNA that is predicted by the ATGpr etc. to be a full-length cDNA clone, from a full-length-enriched cDNA library that is synthesized by the oligo-capping method. Then, the inventors determined the nucleotide sequence of the obtained cDNA clones from both 5'- and 3'- ends.

Furthermore, the inventors analyzed the obtained clones by the BLAST search of the databases, SwissProt (http://www.ebi.ac.uk/ebi_docs/SwissProt_db/swisshome.html), GenBank (<http://www.ncbi.nlm.nih.gov/web/GenBank>), and UniGene (Human) (<http://www.ncbi.nlm.nih.gov/UniGene>).

The full-length cDNA clones of the present invention have high fullness ratio since these were obtained by the combination of (1) construction of a full-length-enriched cDNA library that is synthesized by the oligo-capping method, and (2) a system in which the full-length ratio is evaluated from the nucleotide sequence of the 5'-end (selection based on the ATGpr, previously removed complete sequences to ESTs). However, the primer of the present invention enables to obtain full-length cDNA easily without any specialized methods as in the described method. Homology analysis in which the analysis is carried out against a not-full-length cDNA fragment to postulate the function of a protein encoded by said fragment, is being commonly performed. However, since such analysis is based on the information of the fragment, it is not clear as to whether this fragment corresponds to a part that is functionally important in the protein. In other words, the reliability of the homology analysis based on the information of a fragment is doubtful, as information related to the structure of the whole protein is not available. However, the homology analysis of the present invention is conducted based on the information of a full-length cDNA comprising the whole coding region of the cDNA, and therefore, the homology of various portions of the protein can be analyzed. Hence, the reliability of the homology analysis has been dramatically improved in the present invention.

The inventors completed the invention by finding that it is possible to synthesize a novel full-length cDNA by using the combination of a primer that is designed based on the nucleotide sequence of the 5'-ends of the selected full-length cDNA clones and any of an oligo-dT primer or a 3'-primer that is designed based on the nucleotide sequence of the 3'-ends of the selected clones.

Thus, the present invention relates to primers described below, a method for synthesizing a polynucleotide using the primers, and polynucleotides obtained by the method.

First, the present invention relates to

(1) use of an oligonucleotide as a primer for synthesizing the polynucleotide comprising the nucleotide sequence set forth in any one of SEQ ID NOs: 1-5547 and SEQ ID NOs: 16111-16164, or the complementary strand thereof, wherein said oligonucleotide is complementary to said polynucleotide or the complementary strand thereof and comprises at least 15 nucleotides;

(2) a primer set for synthesizing polynucleotides, the primer set comprising an oligo-dT primer and an oligonucleotide complementary to the complementary strand of the polynucleotide comprising the nucleotide sequence set forth in any one of SEQ ID NOs: 1-5547 and SEQ ID NOs: 16111-16164, wherein said oligonucleotide comprises at least 15 nucleotides; and

(3) a primer set for synthesizing polynucleotides, the primer set comprising a combination of an oligonucleotide comprising a nucleotide sequence complementary to the complementary strand of the polynucleotide comprising a 5'-end nucleotide sequence and an oligonucleotide comprising a nucleotide sequence complementary to the polynucleotide comprising a 3'-end nucleotide sequence, wherein said oligonucleotides comprise at least 15 nucleotides and wherein said combination of 5'-end nucleotide sequence / 3'-end nucleotide sequence is selected from the combinations of 5'-end nucleotide sequence / 3'-end nucleotide sequence set forth in the SEQ ID NOs in Tables 1 and 2.

Tables 1 and 2 shows names of clones obtained in the examples described later, comprising the polynucleotide of the present invention (Table 1; 5547 clones, Table 2; 54 clones), names of nucleotide sequences at the 5'-end and 3'-end of the full-length cDNA, and their corresponding SEQ ID NOs. A blank indicates that the 3'-end sequence corresponding to the 5'-end sequence has not been determined for the same clone.

The SEQ ID NO of a 5'-end sequence is shown on the right side of the name of the 5'-end sequence, and the SEQ ID NO of a 3'-end sequence is shown on the right side of the name of the 3'-end sequence.

Table 1

name of clone	name of 5'-end sequence	SEQ ID of 5'-end sequence	name of 3'-end sequence	SEQ ID of 3'-end sequence
HEMBA1000005	F-HEMBA1000005	1	R-HEMBA1000005	5548
HEMBA1000012	F-HEMBA1000012	2		
HEMBA1000020	F-HEMBA1000020	3		
HEMBA1000030	F-HEMBA1000030	4	R-HEMBA1000030	5549
HEMBA1000042	F-HEMBA1000042	5	R-HEMBA1000042	5550
HEMBA1000046	F-HEMBA1000046	6	R-HEMBA1000046	5551
HEMBA1000050	F-HEMBA1000050	7	R-HEMBA1000050	5552
HEMBA1000076	F-HEMBA1000076	8	R-HEMBA1000076	5553
HEMBA1000111	F-HEMBA1000111	9	R-HEMBA1000111	5554
HEMBA1000129	F-HEMBA1000129	10	R-HEMBA1000129	5555
HEMBA1000141	F-HEMBA1000141	11	R-HEMBA1000141	5556
HEMBA1000150	F-HEMBA1000150	12	R-HEMBA1000150	5557
HEMBA1000156	F-HEMBA1000156	13	R-nnnnnnnnnnnnn	5558
HEMBA1000158	F-HEMBA1000158	14	R-HEMBA1000158	5559
HEMBA1000168	F-HEMBA1000168	15	R-nnnnnnnnnnnnn	5560

	HEMBA1000180	F-HEMBA1000180	16	R-HEMBA1000180	5561
	HEMBA1000185	F-HEMBA1000185	17	R-HEMBA1000185	5562
	HEMBA1000193	F-HEMBA1000193	18	R-HEMBA1000193	5563
	HEMBA1000201	F-HEMBA1000201	19	R-HEMBA1000201	5564
5	HEMBA1000213	F-HEMBA1000213	20	R-HEMBA1000213	5565
	HEMBA1000216	F-HEMBA1000216	21	R-HEMBA1000216	5566
	HEMBA1000227	F-HEMBA1000227	22	R-nnnnnnnnnnnnn	5567
	HEMBA1000231	F-HEMBA1000231	23	R-HEMBA1000231	5568
	HEMBA1000243	F-HEMBA1000243	24	R-HEMBA1000243	5569
10	HEMBA1000244	F-HEMBA1000244	25	R-HEMBA1000244	5570
	HEMBA1000251	F-HEMBA1000251	26	R-HEMBA1000251	5571
	HEMBA1000264	F-HEMBA1000264	27	R-HEMBA1000264	5572
	HEMBA1000280	F-HEMBA1000280	28	R-nnnnnnnnnnnnn	5573
	HEMBA1000282	F-HEMBA1000282	29	R-HEMBA1000282	5574
15	HEMBA1000288	F-HEMBA1000288	30	R-HEMBA1000288	5575
	HEMBA1000290	F-HEMBA1000290	31	R-HEMBA1000290	5576
	HEMBA1000302	F-HEMBA1000302	32	R-HEMBA1000302	5577
	HEMBA1000303	F-HEMBA1000303	33	R-nnnnnnnnnnnnn	5578
	HEMBA1000304	F-HEMBA1000304	34	R-nnnnnnnnnnnnn	5579
20	HEMBA1000307	F-HEMBA1000307	35	R-HEMBA1000307	5580
	HEMBA1000327	F-HEMBA1000327	36		
	HEMBA1000333	F-HEMBA1000333	37	R-nnnnnnnnnnnnn	5581
	HEMBA1000338	F-HEMBA1000338	38	R-HEMBA1000338	5582
	HEMBA1000351	F-HEMBA1000351	39	R-HEMBA1000351	5583
25	HEMBA1000355	F-HEMBA1000355	40	R-HEMBA1000355	5584
	HEMBA1000356	F-HEMBA1000356	41		
	HEMBA1000357	F-HEMBA1000357	42	R-HEMBA1000357	5585
	HEMBA1000366	F-HEMBA1000366	43	R-HEMBA1000366	5586
	HEMBA1000369	F-HEMBA1000369	44	R-HEMBA1000369	5587
30	HEMBA1000376	F-HEMBA1000376	45	R-HEMBA1000376	5588
	HEMBA1000387	F-HEMBA1000387	46	R-HEMBA1000387	5589
	HEMBA1000390	F-HEMBA1000390	47	R-HEMBA1000390	5590
	HEMBA1000392	F-HEMBA1000392	48	R-HEMBA1000392	5591
	HEMBA1000396	F-HEMBA1000396	49	R-HEMBA1000396	5592
35	HEMBA1000411	F-HEMBA1000411	50	R-HEMBA1000411	5593
	HEMBA1000418	F-HEMBA1000418	51	R-HEMBA1000418	5594
	HEMBA1000422	F-HEMBA1000422	52	R-HEMBA1000422	5595
	HEMBA1000428	F-HEMBA1000428	53	R-HEMBA1000428	5596
	HEMBA1000434	F-HEMBA1000434	54	R-HEMBA1000434	5597
40	HEMBA1000442	F-HEMBA1000442	55	R-HEMBA1000442	5598
	HEMBA1000456	F-HEMBA1000456	56	R-HEMBA1000456	5599
	HEMBA1000459	F-HEMBA1000459	57	R-HEMBA1000459	5600
	HEMBA1000460	F-HEMBA1000460	58	R-HEMBA1000460	5601
	HEMBA1000464	F-HEMBA1000464	59	R-HEMBA1000464	5602
45	HEMBA1000469	F-HEMBA1000469	60	R-HEMBA1000469	5603
	HEMBA1000488	F-HEMBA1000488	61	R-HEMBA1000488	5604

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	HEMBA1000490	F-HEMBA1000490	62	R-HEMBA1000490	5605
	HEMBA1000491	F-HEMBA1000491	63	R-HEMBA1000491	5606
	HEMBA1000501	F-HEMBA1000501	64		
	HEMBA1000504	F-HEMBA1000504	65	R-HEMBA1000504	5607
5	HEMBA1000505	F-HEMBA1000505	66	R-HEMBA1000505	5608
	HEMBA1000508	F-HEMBA1000508	67	R-HEMBA1000508	5609
	HEMBA1000518	F-HEMBA1000518	68	R-HEMBA1000518	5610
	HEMBA1000519	F-HEMBA1000519	69	R-HEMBA1000519	5611
	HEMBA1000520	F-HEMBA1000520	70	R-HEMBA1000520	5612
10	HEMBA1000523	F-HEMBA1000523	71	R-HEMBA1000523	5613
	HEMBA1000531	F-HEMBA1000531	72	R-HEMBA1000531	5614
	HEMBA1000534	F-HEMBA1000534	73		
	HEMBA1000540	F-HEMBA1000540	74	R-HEMBA1000540	5615
	HEMBA1000542	F-HEMBA1000542	75		
15	HEMBA1000545	F-HEMBA1000545	76	R-HEMBA1000545	5616
	HEMBA1000555	F-HEMBA1000555	77	R-nnnnnnnnnnnnn	5617
	HEMBA1000557	F-HEMBA1000557	78	R-HEMBA1000557	5618
	HEMBA1000561	F-HEMBA1000561	79	R-HEMBA1000561	5619
	HEMBA1000563	F-HEMBA1000563	80	R-HEMBA1000563	5620
20	HEMBA1000568	F-HEMBA1000568	81	R-HEMBA1000568	5621
	HEMBA1000569	F-HEMBA1000569	82	R-nnnnnnnnnnnnn	5622
	HEMBA1000575	F-HEMBA1000575	83	R-HEMBA1000575	5623
	HEMBA1000588	F-HEMBA1000588	84	R-HEMBA1000588	5624
	HEMBA1000591	F-HEMBA1000591	85	R-HEMBA1000591	5625
25	HEMBA1000592	F-HEMBA1000592	86	R-HEMBA1000592	5626
	HEMBA1000594	F-HEMBA1000594	87	R-HEMBA1000594	5627
	HEMBA1000604	F-HEMBA1000604	88	R-HEMBA1000604	5628
	HEMBA1000608	F-HEMBA1000608	89	R-HEMBA1000608	5629
	HEMBA1000622	F-HEMBA1000622	90	R-HEMBA1000622	5630
30	HEMBA1000636	F-HEMBA1000636	91	R-HEMBA1000636	5631
	HEMBA1000637	F-HEMBA1000637	92	R-HEMBA1000637	5632
	HEMBA1000655	F-HEMBA1000655	93	R-HEMBA1000655	5633
	HEMBA1000657	F-HEMBA1000657	94	R-HEMBA1000657	5634
	HEMBA1000662	F-HEMBA1000662	95	R-HEMBA1000662	5635
35	HEMBA1000673	F-HEMBA1000673	96	R-HEMBA1000673	5636
	HEMBA1000682	F-HEMBA1000682	97	R-HEMBA1000682	5637
	HEMBA1000686	F-HEMBA1000686	98	R-HEMBA1000686	5638
	HEMBA1000702	F-HEMBA1000702	99	R-HEMBA1000702	5639
	HEMBA1000705	F-HEMBA1000705	100	R-HEMBA1000705	5640
40	HEMBA1000719	F-HEMBA1000719	101	R-HEMBA1000719	5641
	HEMBA1000722	F-HEMBA1000722	102	R-HEMBA1000722	5642
	HEMBA1000726	F-HEMBA1000726	103	R-HEMBA1000726	5643
	HEMBA1000727	F-HEMBA1000727	104	R-HEMBA1000727	5644
	HEMBA1000747	F-HEMBA1000747	105	R-HEMBA1000747	5645
45	HEMBA1000749	F-HEMBA1000749	106	R-HEMBA1000749	5646
	HEMBA1000752	F-HEMBA1000752	107	R-HEMBA1000752	5647

	HEMBA1000769	F-HEMBA1000769	108	R-HEMBA1000769	5648
	HEMBA1000773	F-HEMBA1000773	109	R-HEMBA1000773	5649
	HEMBA1000774	F-HEMBA1000774	110	R-HEMBA1000774	5650
	HEMBA1000791	F-HEMBA1000791	111	R-HEMBA1000791	5651
5	HEMBA1000817	F-HEMBA1000817	112	R-HEMBA1000817	5652
	HEMBA1000822	F-HEMBA1000822	113	R-HEMBA1000822	5653
	HEMBA1000827	F-HEMBA1000827	114	R-HEMBA1000827	5654
	HEMBA1000843	F-HEMBA1000843	115	R-HEMBA1000843	5655
	HEMBA1000851	F-HEMBA1000851	116	R-HEMBA1000851	5656
10	HEMBA1000852	F-HEMBA1000852	117	R-HEMBA1000852	5657
	HEMBA1000867	F-HEMBA1000867	118	R-HEMBA1000867	5658
	HEMBA1000869	F-HEMBA1000869	119	R-HEMBA1000869	5659
	HEMBA1000870	F-HEMBA1000870	120	R-HEMBA1000870	5660
	HEMBA1000872	F-HEMBA1000872	121	R-HEMBA1000872	5661
15	HEMBA1000876	F-HEMBA1000876	122	R-HEMBA1000876	5662
	HEMBA1000908	F-HEMBA1000908	123	R-HEMBA1000908	5663
	HEMBA1000910	F-HEMBA1000910	124	R-HEMBA1000910	5664
	HEMBA1000918	F-HEMBA1000918	125	R-HEMBA1000918	5665
	HEMBA1000919	F-HEMBA1000919	126	R-HEMBA1000919	5666
20	HEMBA1000934	F-HEMBA1000934	127	R-HEMBA1000934	5667
	HEMBA1000942	F-HEMBA1000942	128	R-HEMBA1000942	5668
	HEMBA1000943	F-HEMBA1000943	129	R-HEMBA1000943	5669
	HEMBA1000946	F-HEMBA1000946	130	R-HEMBA1000946	5670
	HEMBA1000960	F-HEMBA1000960	131	R-HEMBA1000960	5671
25	HEMBA1000968	F-HEMBA1000968	132	R-HEMBA1000968	5672
	HEMBA1000971	F-HEMBA1000971	133	R-HEMBA1000971	5673
	HEMBA1000972	F-HEMBA1000972	134	R-HEMBA1000972	5674
	HEMBA1000974	F-HEMBA1000974	135	R-HEMBA1000974	5675
	HEMBA1000975	F-HEMBA1000975	136	R-HEMBA1000975	5676
30	HEMBA1000985	F-HEMBA1000985	137	R-HEMBA1000985	5677
	HEMBA1000986	F-HEMBA1000986	138	R-HEMBA1000986	5678
	HEMBA1000991	F-HEMBA1000991	139	R-HEMBA1000991	5679
	HEMBA1001007	F-HEMBA1001007	140	R-HEMBA1001007	5680
	HEMBA1001008	F-HEMBA1001008	141	R-HEMBA1001008	5681
35	HEMBA1001009	F-HEMBA1001009	142	R-HEMBA1001009	5682
	HEMBA1001017	F-HEMBA1001017	143	R-HEMBA1001017	5683
	HEMBA1001019	F-HEMBA1001019	144	R-HEMBA1001019	5684
	HEMBA1001020	F-HEMBA1001020	145	R-HEMBA1001020	5685
	HEMBA1001022	F-HEMBA1001022	146	R-HEMBA1001022	5686
40	HEMBA1001024	F-HEMBA1001024	147	R-HEMBA1001024	5687
	HEMBA1001026	F-HEMBA1001026	148	R-HEMBA1001026	5688
	HEMBA1001043	F-HEMBA1001043	149	R-nnnnnnnnnnnnn	5689
	HEMBA1001051	F-HEMBA1001051	150	R-HEMBA1001051	5690
	HEMBA1001052	F-HEMBA1001052	151	R-HEMBA1001052	5691
45	HEMBA1001059	F-HEMBA1001059	152		
	HEMBA1001060	F-HEMBA1001060	153	R-HEMBA1001060	5692

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	HEMBA1001071	F-HEMBA1001071	154	R-HEMBA1001071	5693
	HEMBA1001077	F-HEMBA1001077	155	R-HEMBA1001077	5694
	HEMBA1001080	F-HEMBA1001080	156	R-HEMBA1001080	5695
	HEMBA1001085	F-HEMBA1001085	157	R-HEMBA1001085	5696
5	HEMBA1001088	F-HEMBA1001088	158	R-HEMBA1001088	5697
	HEMBA1001094	F-HEMBA1001094	159	R-HEMBA1001094	5698
	HEMBA1001099	F-HEMBA1001099	160	R-HEMBA1001099	5699
	HEMBA1001109	F-HEMBA1001109	161	R-HEMBA1001109	5700
	HEMBA1001121	F-HEMBA1001121	162	R-HEMBA1001121	5701
10	HEMBA1001122	F-HEMBA1001122	163	R-HEMBA1001122	5702
	HEMBA1001123	F-HEMBA1001123	164	R-HEMBA1001123	5703
	HEMBA1001133	F-HEMBA1001133	165	R-HEMBA1001133	5704
	HEMBA1001137	F-HEMBA1001137	166	R-HEMBA1001137	5705
	HEMBA1001140	F-HEMBA1001140	167	R-HEMBA1001140	5706
15	HEMBA1001172	F-HEMBA1001172	168	R-HEMBA1001172	5707
	HEMBA1001174	F-HEMBA1001174	169	R-HEMBA1001174	5708
	HEMBA1001197	F-HEMBA1001197	170	R-HEMBA1001197	5709
	HEMBA1001208	F-HEMBA1001208	171	R-HEMBA1001208	5710
	HEMBA1001213	F-HEMBA1001213	172		
20	HEMBA1001226	F-HEMBA1001226	173	R-HEMBA1001226	5711
	HEMBA1001235	F-HEMBA1001235	174	R-HEMBA1001235	5712
	HEMBA1001247	F-HEMBA1001247	175	R-HEMBA1001247	5713
	HEMBA1001257	F-HEMBA1001257	176	R-HEMBA1001257	5714
	HEMBA1001265	F-HEMBA1001265	177	R-HEMBA1001265	5715
25	HEMBA1001281	F-HEMBA1001281	178	R-nnnnnnnnnnnnn	5716
	HEMBA1001286	F-HEMBA1001286	179	R-HEMBA1001286	5717
	HEMBA1001289	F-HEMBA1001289	180	R-HEMBA1001289	5718
	HEMBA1001294	F-HEMBA1001294	181	R-HEMBA1001294	5719
	HEMBA1001299	F-HEMBA1001299	182	R-HEMBA1001299	5720
30	HEMBA1001302	F-HEMBA1001302	183	R-HEMBA1001302	5721
	HEMBA1001303	F-HEMBA1001303	184	R-HEMBA1001303	5722
	HEMBA1001310	F-HEMBA1001310	185	R-HEMBA1001310	5723
	HEMBA1001319	F-HEMBA1001319	186	R-HEMBA1001319	5724
	HEMBA1001323	F-HEMBA1001323	187	R-HEMBA1001323	5725
35	HEMBA1001326	F-HEMBA1001326	188	R-HEMBA1001326	5726
	HEMBA1001327	F-HEMBA1001327	189	R-HEMBA1001327	5727
	HEMBA1001330	F-HEMBA1001330	190	R-HEMBA1001330	5728
	HEMBA1001351	F-HEMBA1001351	191	R-HEMBA1001351	5729
	HEMBA1001361	F-HEMBA1001361	192	R-HEMBA1001361	5730
40	HEMBA1001375	F-HEMBA1001375	193	R-HEMBA1001375	5731
	HEMBA1001377	F-HEMBA1001377	194	R-HEMBA1001377	5732
	HEMBA1001383	F-HEMBA1001383	195	R-HEMBA1001383	5733
	HEMBA1001387	F-HEMBA1001387	196	R-HEMBA1001387	5734
	HEMBA1001388	F-HEMBA1001388	197	R-HEMBA1001388	5735
45	HEMBA1001391	F-HEMBA1001391	198	R-HEMBA1001391	5736
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	HEMBA1001405	F-HEMBA1001405	200	R-HEMBA1001405	5738
	HEMBA1001407	F-HEMBA1001407	201	R-HEMBA1001407	5739
	HEMBA1001411	F-HEMBA1001411	202	R-HEMBA1001411	5740
	HEMBA1001413	F-HEMBA1001413	203	R-HEMBA1001413	5741
5	HEMBA1001415	F-HEMBA1001415	204	R-HEMBA1001415	5742
	HEMBA1001432	F-HEMBA1001432	205	R-HEMBA1001432	5743
	HEMBA1001433	F-HEMBA1001433	206	R-HEMBA1001433	5744
	HEMBA1001435	F-HEMBA1001435	207	R-HEMBA1001435	5745
	HEMBA1001442	F-HEMBA1001442	208	R-HEMBA1001442	5746
10	HEMBA1001446	F-HEMBA1001446	209	R-HEMBA1001446	5747
	HEMBA1001450	F-HEMBA1001450	210	R-HEMBA1001450	5748
	HEMBA1001454	F-HEMBA1001454	211	R-HEMBA1001454	5749
	HEMBA1001455	F-HEMBA1001455	212	R-HEMBA1001455	5750
	HEMBA1001463	F-HEMBA1001463	213	R-HEMBA1001463	5751
15	HEMBA1001476	F-HEMBA1001476	214	R-HEMBA1001476	5752
	HEMBA1001478	F-HEMBA1001478	215	R-HEMBA1001478	5753
	HEMBA1001497	F-HEMBA1001497	216	R-HEMBA1001497	5754
	HEMBA1001510	F-HEMBA1001510	217	R-HEMBA1001510	5755
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	HEMBA1001522	F-HEMBA1001522	220	R-HEMBA1001522	5758
	HEMBA1001526	F-HEMBA1001526	221	R-HEMBA1001526	5759
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	HEMBA1001569	F-HEMBA1001569	225	R-HEMBA1001569	5763
	HEMBA1001570	F-HEMBA1001570	226	R-HEMBA1001570	5764
	HEMBA1001579	F-HEMBA1001579	227	R-HEMBA1001579	5765
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	HEMBA1001589	F-HEMBA1001589	230	R-HEMBA1001589	5768
	HEMBA1001595	F-HEMBA1001595	231	R-HEMBA1001595	5769
	HEMBA1001608	F-HEMBA1001608	232	R-HEMBA1001608	5770
	HEMBA1001620	F-HEMBA1001620	233	R-HEMBA1001620	5771
35	HEMBA1001635	F-HEMBA1001635	234	R-nnnnnnnnnnnnn	5772
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	HEMBA1001640	F-HEMBA1001640	236	R-HEMBA1001640	5774
	HEMBA1001647	F-HEMBA1001647	237		
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40	HEMBA1001655	F-HEMBA1001655	239	R-HEMBA1001655	5776
	HEMBA1001658	F-HEMBA1001658	240	R-HEMBA1001658	5777
	HEMBA1001661	F-HEMBA1001661	241	R-HEMBA1001661	5778
	HEMBA1001672	F-HEMBA1001672	242	R-HEMBA1001672	5779
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45	HEMBA1001678	F-HEMBA1001678	244	R-HEMBA1001678	5781
	HEMBA1001681	F-HEMBA1001681	245	R-HEMBA1001681	5782

	HEMBA1001702	F-HEMBA1001702	246	R-HEMBA1001702	5783
	HEMBA1001709	F-HEMBA1001709	247	R-HEMBA1001709	5784
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	HEMBA1001745	F-HEMBA1001745	256	R-HEMBA1001745	5793
	HEMBA1001746	F-HEMBA1001746	257	R-HEMBA1001746	5794
	HEMBA1001761	F-HEMBA1001761	258	R-HEMBA1001761	5795
	HEMBA1001781	F-HEMBA1001781	259	R-HEMBA1001781	5796
15	HEMBA1001784	F-HEMBA1001784	260	R-HEMBA1001784	5797
	HEMBA1001791	F-HEMBA1001791	261	R-HEMBA1001791	5798
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	HEMBA1001803	F-HEMBA1001803	263	R-HEMBA1001803	5800
	HEMBA1001804	F-HEMBA1001804	264	R-nnnnnnnnnnnnn	5801
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	HEMBA1001809	F-HEMBA1001809	266	R-HEMBA1001809	5803
	HEMBA1001815	F-HEMBA1001815	267	R-HEMBA1001815	5804
	HEMBA1001819	F-HEMBA1001819	268	R-HEMBA1001819	5805
	HEMBA1001820	F-HEMBA1001820	269	R-HEMBA1001820	5806
25	HEMBA1001822	F-HEMBA1001822	270	R-nnnnnnnnnnnnn	5807
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	HEMBA1001835	F-HEMBA1001835	272	R-HEMBA1001835	5809
	HEMBA1001844	F-HEMBA1001844	273	R-HEMBA1001844	5810
	HEMBA1001847	F-HEMBA1001847	274	R-HEMBA1001847	5811
30	HEMBA1001861	F-HEMBA1001861	275	R-HEMBA1001861	5812
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	HEMBA1001869	F-HEMBA1001869	278	R-nnnnnnnnnnnnn	5815
	HEMBA1001888	F-HEMBA1001888	279	R-HEMBA1001888	5816
35	HEMBA1001896	F-HEMBA1001896	280	R-HEMBA1001896	5817
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	HEMBA1001913	F-HEMBA1001913	283	R-HEMBA1001913	5820
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40	HEMBA1001918	F-HEMBA1001918	285	R-HEMBA1001918	5822
	HEMBA1001921	F-HEMBA1001921	286	R-HEMBA1001921	5823
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	HEMBA1001950	F-HEMBA1001950	291	R-HEMBA1001950	5828

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	HEMBA1001964	F-HEMBA1001964	294	R-HEMBA1001964	5831
	HEMBA1001967	F-HEMBA1001967	295	R-HEMBA1001967	5832
5	HEMBA1001979	F-HEMBA1001979	296	R-HEMBA1001979	5833
	HEMBA1001987	F-HEMBA1001987	297	R-HEMBA1001987	5834
	HEMBA1001991	F-HEMBA1001991	298	R-HEMBA1001991	5835
	HEMBA1002003	F-HEMBA1002003	299	R-HEMBA1002003	5836
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	HEMBA1002035	F-HEMBA1002035	303	R-HEMBA1002035	5840
	HEMBA1002039	F-HEMBA1002039	304	R-HEMBA1002039	5841
	HEMBA1002049	F-HEMBA1002049	305	R-HEMBA1002049	5842
15	HEMBA1002084	F-HEMBA1002084	306	R-HEMBA1002084	5843
	HEMBA1002092	F-HEMBA1002092	307	R-HEMBA1002092	5844
	HEMBA1002100	F-HEMBA1002100	308	R-HEMBA1002100	5845
	HEMBA1002102	F-HEMBA1002102	309	R-HEMBA1002102	5846
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	HEMBA1002144	F-HEMBA1002144	314	R-HEMBA1002144	5851
	HEMBA1002150	F-HEMBA1002150	315	R-HEMBA1002150	5852
25	HEMBA1002151	F-HEMBA1002151	316	R-HEMBA1002151	5853
	HEMBA1002153	F-HEMBA1002153	317	R-HEMBA1002153	5854
	HEMBA1002160	F-HEMBA1002160	318	R-HEMBA1002160	5855
	HEMBA1002161	F-HEMBA1002161	319	R-HEMBA1002161	5856
	HEMBA1002162	F-HEMBA1002162	320	R-HEMBA1002162	5857
30	HEMBA1002166	F-HEMBA1002166	321	R-HEMBA1002166	5858
	HEMBA1002177	F-HEMBA1002177	322	R-HEMBA1002177	5859
	HEMBA1002185	F-HEMBA1002185	323	R-HEMBA1002185	5860
	HEMBA1002189	F-HEMBA1002189	324	R-HEMBA1002189	5861
	HEMBA1002191	F-HEMBA1002191	325	R-HEMBA1002191	5862
35	HEMBA1002199	F-HEMBA1002199	326	R-HEMBA1002199	5863
	HEMBA1002204	F-HEMBA1002204	327	R-HEMBA1002204	5864
	HEMBA1002212	F-HEMBA1002212	328	R-HEMBA1002212	5865
	HEMBA1002215	F-HEMBA1002215	329	R-HEMBA1002215	5866
	HEMBA1002226	F-HEMBA1002226	330	R-HEMBA1002226	5867
40	HEMBA1002229	F-HEMBA1002229	331	R-HEMBA1002229	5868
	HEMBA1002237	F-HEMBA1002237	332	R-HEMBA1002237	5869
	HEMBA1002241	F-HEMBA1002241	333		
	HEMBA1002253	F-HEMBA1002253	334	R-HEMBA1002253	5870
	HEMBA1002257	F-HEMBA1002257	335	R-HEMBA1002257	5871
45	HEMBA1002265	F-HEMBA1002265	336		
	HEMBA1002267	F-HEMBA1002267	337	R-HEMBA1002267	5872

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	HEMBA1002321	F-HEMBA1002321	339	R-HEMBA1002321	5874
	HEMBA1002328	F-HEMBA1002328	340	R-HEMBA1002328	5875
	HEMBA1002337	F-HEMBA1002337	341	R-HEMBA1002337	5876
5	HEMBA1002341	F-HEMBA1002341	342	R-HEMBA1002341	5877
	HEMBA1002348	F-HEMBA1002348	343	R-HEMBA1002348	5878
	HEMBA1002349	F-HEMBA1002349	344	R-HEMBA1002349	5879
	HEMBA1002363	F-HEMBA1002363	345	R-nnnnnnnnnnnnn	5880
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10	HEMBA1002389	F-HEMBA1002389	347	R-HEMBA1002389	5882
	HEMBA1002417	F-HEMBA1002417	348	R-HEMBA1002417	5883
	HEMBA1002419	F-HEMBA1002419	349	R-HEMBA1002419	5884
	HEMBA1002430	F-HEMBA1002430	350	R-HEMBA1002430	5885
	HEMBA1002439	F-HEMBA1002439	351	R-HEMBA1002439	5886
15	HEMBA1002458	F-HEMBA1002458	352	R-HEMBA1002458	5887
	HEMBA1002460	F-HEMBA1002460	353	R-HEMBA1002460	5888
	HEMBA1002462	F-HEMBA1002462	354	R-HEMBA1002462	5889
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20	HEMBA1002477	F-HEMBA1002477	357	R-HEMBA1002477	5891
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	HEMBA1002495	F-HEMBA1002495	359	R-HEMBA1002495	5893
	HEMBA1002498	F-HEMBA1002498	360	R-HEMBA1002498	5894
	HEMBA1002503	F-HEMBA1002503	361	R-HEMBA1002503	5895
25	HEMBA1002508	F-HEMBA1002508	362	R-HEMBA1002508	5896
	HEMBA1002513	F-HEMBA1002513	363	R-nnnnnnnnnnnnn	5897
	HEMBA1002515	F-HEMBA1002515	364	R-HEMBA1002515	5898
	HEMBA1002538	F-HEMBA1002538	365	R-HEMBA1002538	5899
	HEMBA1002542	F-HEMBA1002542	366	R-HEMBA1002542	5900
30	HEMBA1002547	F-HEMBA1002547	367	R-HEMBA1002547	5901
	HEMBA1002552	F-HEMBA1002552	368	R-HEMBA1002552	5902
	HEMBA1002555	F-HEMBA1002555	369	R-HEMBA1002555	5903
	HEMBA1002558	F-HEMBA1002558	370	R-HEMBA1002558	5904
	HEMBA1002561	F-HEMBA1002561	371	R-HEMBA1002561	5905
35	HEMBA1002569	F-HEMBA1002569	372	R-nnnnnnnnnnnnn	5906
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	HEMBA1002590	F-HEMBA1002590	374	R-HEMBA1002590	5908
	HEMBA1002592	F-HEMBA1002592	375	R-HEMBA1002592	5909
	HEMBA1002609	F-HEMBA1002609	376		
40	HEMBA1002621	F-HEMBA1002621	377	R-HEMBA1002621	5910
	HEMBA1002624	F-HEMBA1002624	378	R-HEMBA1002624	5911
	HEMBA1002628	F-HEMBA1002628	379	R-HEMBA1002628	5912
	HEMBA1002629	F-HEMBA1002629	380	R-HEMBA1002629	5913
	HEMBA1002645	F-HEMBA1002645	381	R-HEMBA1002645	5914
45	HEMBA1002651	F-HEMBA1002651	382	R-HEMBA1002651	5915
	HEMBA1002659	F-HEMBA1002659	383	R-HEMBA1002659	5916

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	HEMBA1002679	F-HEMBA1002679	387	R-nnnnnnnnnnnnn	5920
5	HEMBA1002688	F-HEMBA1002688	388	R-HEMBA1002688	5921
	HEMBA1002696	F-HEMBA1002696	389	R-HEMBA1002696	5922
	HEMBA1002703	F-HEMBA1002703	390		
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	HEMBA1002716	F-HEMBA1002716	392	R-HEMBA1002716	5924
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	HEMBA1002730	F-HEMBA1002730	394	R-HEMBA1002730	5926
	HEMBA1002742	F-HEMBA1002742	395	R-HEMBA1002742	5927
	HEMBA1002746	F-HEMBA1002746	396	R-HEMBA1002746	5928
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20	HEMBA1002780	F-HEMBA1002780	403	R-HEMBA1002780	5935
	HEMBA1002794	F-HEMBA1002794	404	R-HEMBA1002794	5936
	HEMBA1002801	F-HEMBA1002801	405	R-HEMBA1002801	5937
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30	HEMBA1002876	F-HEMBA1002876	413	R-HEMBA1002876	5944
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	HEMBA1002896	F-HEMBA1002896	415	R-HEMBA1002896	5946
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	HEMBA1002935	F-HEMBA1002935	419	R-HEMBA1002935	5950
	HEMBA1002937	F-HEMBA1002937	420	R-HEMBA1002937	5951
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40	HEMBA1002951	F-HEMBA1002951	423	R-HEMBA1002951	5954
	HEMBA1002954	F-HEMBA1002954	424	R-HEMBA1002954	5955
	HEMBA1002968	F-HEMBA1002968	425	R-HEMBA1002968	5956
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	HEMBA1002971	F-HEMBA1002971	427	R-HEMBA1002971	5958
45	HEMBA1002973	F-HEMBA1002973	428	R-HEMBA1002973	5959
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	HEMBA1003033	F-HEMBA1003033	432	R-HEMBA1003033	5963
	HEMBA1003034	F-HEMBA1003034	433	R-HEMBA1003034	5964
5	HEMBA1003035	F-HEMBA1003035	434	R-HEMBA1003035	5965
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	HEMBA1003041	F-HEMBA1003041	436	R-HEMBA1003041	5967
	HEMBA1003046	F-HEMBA1003046	437	R-HEMBA1003046	5968
	HEMBA1003064	F-HEMBA1003064	438	R-HEMBA1003064	5969
10	HEMBA1003067	F-HEMBA1003067	439	R-HEMBA1003067	5970
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	HEMBA1003077	F-HEMBA1003077	441	R-HEMBA1003077	5972
	HEMBA1003078	F-HEMBA1003078	442	R-HEMBA1003078	5973
	HEMBA1003079	F-HEMBA1003079	443	R-HEMBA1003079	5974
15	HEMBA1003083	F-HEMBA1003083	444	R-HEMBA1003083	5975
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	HEMBA1003096	F-HEMBA1003096	446	R-HEMBA1003096	5977
	HEMBA1003098	F-HEMBA1003098	447	R-HEMBA1003098	5978
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20	HEMBA1003129	F-HEMBA1003129	449	R-HEMBA1003129	5980
	HEMBA1003133	F-HEMBA1003133	450	R-HEMBA1003133	5981
	HEMBA1003136	F-HEMBA1003136	451	R-HEMBA1003136	5982
	HEMBA1003142	F-HEMBA1003142	452	R-HEMBA1003142	5983
	HEMBA1003148	F-HEMBA1003148	453	R-HEMBA1003148	5984
25	HEMBA1003166	F-HEMBA1003166	454	R-HEMBA1003166	5985
	HEMBA1003175	F-HEMBA1003175	455	R-HEMBA1003175	5986
	HEMBA1003179	F-HEMBA1003179	456		
	HEMBA1003197	F-HEMBA1003197	457	R-HEMBA1003197	5987
	HEMBA1003199	F-HEMBA1003199	458	R-HEMBA1003199	5988
30	HEMBA1003202	F-HEMBA1003202	459	R-HEMBA1003202	5989
	HEMBA1003204	F-HEMBA1003204	460	R-HEMBA1003204	5990
	HEMBA1003212	F-HEMBA1003212	461	R-HEMBA1003212	5991
	HEMBA1003220	F-HEMBA1003220	462	R-HEMBA1003220	5992
	HEMBA1003222	F-HEMBA1003222	463	R-HEMBA1003222	5993
35	HEMBA1003229	F-HEMBA1003229	464	R-HEMBA1003229	5994
	HEMBA1003235	F-HEMBA1003235	465	R-HEMBA1003235	5995
	HEMBA1003250	F-HEMBA1003250	466	R-HEMBA1003250	5996
	HEMBA1003257	F-HEMBA1003257	467	R-HEMBA1003257	5997
	HEMBA1003273	F-HEMBA1003273	468	R-HEMBA1003273	5998
40	HEMBA1003276	F-HEMBA1003276	469	R-HEMBA1003276	5999
	HEMBA1003278	F-HEMBA1003278	470	R-HEMBA1003278	6000
	HEMBA1003281	F-HEMBA1003281	471	R-HEMBA1003281	6001
	HEMBA1003286	F-HEMBA1003286	472		
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45	HEMBA1003296	F-HEMBA1003296	474	R-HEMBA1003296	6003
	HEMBA1003304	F-HEMBA1003304	475	R-HEMBA1003304	6004

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	HEMBA1003314	F-HEMBA1003314	477	R-HEMBA1003314	6006
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5	HEMBA1003328	F-HEMBA1003328	480	R-HEMBA1003328	6009
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	HEMBA1003370	F-HEMBA1003370	484	R-HEMBA1003370	6013
10	HEMBA1003373	F-HEMBA1003373	485	R-HEMBA1003373	6014
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	HEMBA1003384	F-HEMBA1003384	488	R-HEMBA1003384	6017
	HEMBA1003395	F-HEMBA1003395	489	R-HEMBA1003395	6018
15	HEMBA1003402	F-HEMBA1003402	490	R-HEMBA1003402	6019
	HEMBA1003403	F-HEMBA1003403	491		
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	HEMBA1003417	F-HEMBA1003417	493	R-HEMBA1003417	6021
	HEMBA1003418	F-HEMBA1003418	494	R-HEMBA1003418	6022
20	HEMBA1003433	F-HEMBA1003433	495	R-HEMBA1003433	6023
	HEMBA1003447	F-HEMBA1003447	496		
	HEMBA1003461	F-HEMBA1003461	497	R-HEMBA1003461	6024
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	HEMBA1003480	F-HEMBA1003480	499	R-HEMBA1003480	6026
25	HEMBA1003528	F-HEMBA1003528	500	R-HEMBA1003528	6027
	HEMBA1003531	F-HEMBA1003531	501	R-HEMBA1003531	6028
	HEMBA1003538	F-HEMBA1003538	502	R-HEMBA1003538	6029
	HEMBA1003545	F-HEMBA1003545	503	R-HEMBA1003545	6030
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30	HEMBA1003555	F-HEMBA1003555	505	R-HEMBA1003555	6032
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35	HEMBA1003571	F-HEMBA1003571	510	R-HEMBA1003571	6037
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40	HEMBA1003597	F-HEMBA1003597	515	R-HEMBA1003597	6042
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	HEMBA1003615	F-HEMBA1003615	517	R-HEMBA1003615	6044
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45	HEMBA1003622	F-HEMBA1003622	520	R-HEMBA1003622	6047
	HEMBA1003630	F-HEMBA1003630	521	R-HEMBA1003630	6048

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	HEMBA1003958	F-HEMBA1003958	570	R-HEMBA1003958	6096
	HEMBA1003959	F-HEMBA1003959	571	R-HEMBA1003959	6097
5	HEMBA1003976	F-HEMBA1003976	572	R-HEMBA1003976	6098
	HEMBA1003978	F-HEMBA1003978	573	R-HEMBA1003978	6099
	HEMBA1003985	F-HEMBA1003985	574	R-HEMBA1003985	6100
	HEMBA1003987	F-HEMBA1003987	575	R-HEMBA1003987	6101
	HEMBA1003989	F-HEMBA1003989	576	R-HEMBA1003989	6102
10	HEMBA1004000	F-HEMBA1004000	577	R-HEMBA1004000	6103
	HEMBA1004011	F-HEMBA1004011	578	R-HEMBA1004011	6104
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	HEMBA1004015	F-HEMBA1004015	580	R-HEMBA1004015	6106
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15	HEMBA1004038	F-HEMBA1004038	582	R-HEMBA1004038	6108
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	HEMBA1004045	F-HEMBA1004045	584	R-HEMBA1004045	6110
	HEMBA1004048	F-HEMBA1004048	585	R-HEMBA1004048	6111
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	HEMBA1004056	F-HEMBA1004056	588	R-HEMBA1004056	6114
	HEMBA1004074	F-HEMBA1004074	589	R-HEMBA1004074	6115
	HEMBA1004086	F-HEMBA1004086	590	R-HEMBA1004086	6116
	HEMBA1004097	F-HEMBA1004097	591	R-HEMBA1004097	6117
25	HEMBA1004111	F-HEMBA1004111	592		
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	HEMBA1004132	F-HEMBA1004132	594	R-HEMBA1004132	6119
	HEMBA1004133	F-HEMBA1004133	595	R-HEMBA1004133	6120
	HEMBA1004138	F-HEMBA1004138	596	R-HEMBA1004138	6121
30	HEMBA1004143	F-HEMBA1004143	597	R-HEMBA1004143	6122
	HEMBA1004146	F-HEMBA1004146	598	R-HEMBA1004146	6123
	HEMBA1004150	F-HEMBA1004150	599	R-HEMBA1004150	6124
	HEMBA1004164	F-HEMBA1004164	600	R-HEMBA1004164	6125
	HEMBA1004168	F-HEMBA1004168	601	R-HEMBA1004168	6126
35	HEMBA1004199	F-HEMBA1004199	602	R-HEMBA1004199	6127
	HEMBA1004200	F-HEMBA1004200	603	R-HEMBA1004200	6128
	HEMBA1004202	F-HEMBA1004202	604	R-HEMBA1004202	6129
	HEMBA1004203	F-HEMBA1004203	605	R-HEMBA1004203	6130
	HEMBA1004207	F-HEMBA1004207	606	R-HEMBA1004207	6131
40	HEMBA1004225	F-HEMBA1004225	607	R-HEMBA1004225	6132
	HEMBA1004227	F-HEMBA1004227	608	R-HEMBA1004227	6133
	HEMBA1004238	F-HEMBA1004238	609	R-HEMBA1004238	6134
	HEMBA1004241	F-HEMBA1004241	610	R-HEMBA1004241	6135
	HEMBA1004246	F-HEMBA1004246	611	R-HEMBA1004246	6136
45	HEMBA1004248	F-HEMBA1004248	612	R-HEMBA1004248	6137
	HEMBA1004264	F-HEMBA1004264	613	R-HEMBA1004264	6138

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	HEMBA1004604	F-HEMBA1004604	661		
	HEMBA1004610	F-HEMBA1004610	662	R-HEMBA1004610	6183
	HEMBA1004617	F-HEMBA1004617	663	R-HEMBA1004617	6184
5	HEMBA1004629	F-HEMBA1004629	664	R-HEMBA1004629	6185
	HEMBA1004631	F-HEMBA1004631	665	R-HEMBA1004631	6186
	HEMBA1004632	F-HEMBA1004632	666	R-HEMBA1004632	6187
	HEMBA1004637	F-HEMBA1004637	667	R-HEMBA1004637	6188
	HEMBA1004638	F-HEMBA1004638	668	R-HEMBA1004638	6189
10	HEMBA1004666	F-HEMBA1004666	669	R-HEMBA1004666	6190
	HEMBA1004669	F-HEMBA1004669	670	R-HEMBA1004669	6191
	HEMBA1004670	F-HEMBA1004670	671	R-HEMBA1004670	6192
	HEMBA1004672	F-HEMBA1004672	672	R-HEMBA1004672	6193
	HEMBA1004693	F-HEMBA1004693	673	R-HEMBA1004693	6194
15	HEMBA1004697	F-HEMBA1004697	674	R-HEMBA1004697	6195
	HEMBA1004705	F-HEMBA1004705	675	R-HEMBA1004705	6196
	HEMBA1004709	F-HEMBA1004709	676	R-HEMBA1004709	6197
	HEMBA1004711	F-HEMBA1004711	677	R-HEMBA1004711	6198
	HEMBA1004725	F-HEMBA1004725	678	R-HEMBA1004725	6199
20	HEMBA1004730	F-HEMBA1004730	679	R-HEMBA1004730	6200
	HEMBA1004733	F-HEMBA1004733	680	R-HEMBA1004733	6201
	HEMBA1004734	F-HEMBA1004734	681	R-HEMBA1004734	6202
	HEMBA1004736	F-HEMBA1004736	682	R-HEMBA1004736	6203
	HEMBA1004748	F-HEMBA1004748	683	R-HEMBA1004748	6204
25	HEMBA1004751	F-HEMBA1004751	684	R-HEMBA1004751	6205
	HEMBA1004752	F-HEMBA1004752	685	R-HEMBA1004752	6206
	HEMBA1004753	F-HEMBA1004753	686	R-HEMBA1004753	6207
	HEMBA1004756	F-HEMBA1004756	687	R-HEMBA1004756	6208
	HEMBA1004758	F-HEMBA1004758	688	R-HEMBA1004758	6209
30	HEMBA1004763	F-HEMBA1004763	689	R-HEMBA1004763	6210
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	HEMBA1004770	F-HEMBA1004770	691	R-HEMBA1004770	6212
	HEMBA1004771	F-HEMBA1004771	692	R-HEMBA1004771	6213
	HEMBA1004776	F-HEMBA1004776	693	R-HEMBA1004776	6214
35	HEMBA1004778	F-HEMBA1004778	694	R-HEMBA1004778	6215
	HEMBA1004795	F-HEMBA1004795	695	R-nnnnnnnnnnnnn	6216
	HEMBA1004803	F-HEMBA1004803	696	R-HEMBA1004803	6217
	HEMBA1004806	F-HEMBA1004806	697	R-HEMBA1004806	6218
	HEMBA1004807	F-HEMBA1004807	698	R-HEMBA1004807	6219
40	HEMBA1004816	F-HEMBA1004816	699	R-HEMBA1004816	6220
	HEMBA1004820	F-HEMBA1004820	700	R-HEMBA1004820	6221
	HEMBA1004847	F-HEMBA1004847	701	R-HEMBA1004847	6222
	HEMBA1004850	F-HEMBA1004850	702	R-HEMBA1004850	6223
	HEMBA1004863	F-HEMBA1004863	703	R-HEMBA1004863	6224
45	HEMBA1004864	F-HEMBA1004864	704	R-HEMBA1004864	6225
	HEMBA1004865	F-HEMBA1004865	705	R-HEMBA1004865	6226

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	HEMBA1004889	F-HEMBA1004889	707	R-HEMBA1004889	6228
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	HEMBA1004923	F-HEMBA1004923	711	R-HEMBA1004923	6232
	HEMBA1004929	F-HEMBA1004929	712	R-HEMBA1004929	6233
	HEMBA1004930	F-HEMBA1004930	713	R-HEMBA1004930	6234
	HEMBA1004933	F-HEMBA1004933	714	R-HEMBA1004933	6235
10	HEMBA1004934	F-HEMBA1004934	715	R-HEMBA1004934	6236
	HEMBA1004944	F-HEMBA1004944	716	R-HEMBA1004944	6237
	HEMBA1004954	F-HEMBA1004954	717	R-HEMBA1004954	6238
	HEMBA1004956	F-HEMBA1004956	718	R-HEMBA1004956	6239
	HEMBA1004960	F-HEMBA1004960	719	R-HEMBA1004960	6240
15	HEMBA1004972	F-HEMBA1004972	720	R-HEMBA1004972	6241
	HEMBA1004973	F-HEMBA1004973	721	R-HEMBA1004973	6242
	HEMBA1004977	F-HEMBA1004977	722	R-HEMBA1004977	6243
	HEMBA1004978	F-HEMBA1004978	723	R-HEMBA1004978	6244
	HEMBA1004980	F-HEMBA1004980	724	R-HEMBA1004980	6245
20	HEMBA1004983	F-HEMBA1004983	725	R-HEMBA1004983	6246
	HEMBA1004995	F-HEMBA1004995	726	R-HEMBA1004995	6247
	HEMBA1005008	F-HEMBA1005008	727	R-HEMBA1005008	6248
	HEMBA1005009	F-HEMBA1005009	728	R-HEMBA1005009	6249
	HEMBA1005019	F-HEMBA1005019	729	R-HEMBA1005019	6250
25	HEMBA1005029	F-HEMBA1005029	730	R-HEMBA1005029	6251
	HEMBA1005035	F-HEMBA1005035	731	R-HEMBA1005035	6252
	HEMBA1005039	F-HEMBA1005039	732	R-HEMBA1005039	6253
	HEMBA1005047	F-HEMBA1005047	733	R-HEMBA1005047	6254
	HEMBA1005050	F-HEMBA1005050	734	R-HEMBA1005050	6255
30	HEMBA1005062	F-HEMBA1005062	735	R-HEMBA1005062	6256
	HEMBA1005066	F-HEMBA1005066	736	R-HEMBA1005066	6257
	HEMBA1005075	F-HEMBA1005075	737	R-HEMBA1005075	6258
	HEMBA1005079	F-HEMBA1005079	738	R-HEMBA1005079	6259
	HEMBA1005083	F-HEMBA1005083	739	R-HEMBA1005083	6260
35	HEMBA1005101	F-HEMBA1005101	740	R-HEMBA1005101	6261
	HEMBA1005113	F-HEMBA1005113	741	R-HEMBA1005113	6262
	HEMBA1005123	F-HEMBA1005123	742	R-HEMBA1005123	6263
	HEMBA1005133	F-HEMBA1005133	743	R-HEMBA1005133	6264
	HEMBA1005149	F-HEMBA1005149	744	R-HEMBA1005149	6265
40	HEMBA1005152	F-HEMBA1005152	745	R-HEMBA1005152	6266
	HEMBA1005159	F-HEMBA1005159	746	R-HEMBA1005159	6267
	HEMBA1005185	F-HEMBA1005185	747	R-HEMBA1005185	6268
	HEMBA1005201	F-HEMBA1005201	748	R-HEMBA1005201	6269
	HEMBA1005202	F-HEMBA1005202	749	R-HEMBA1005202	6270
45	HEMBA1005206	F-HEMBA1005206	750		
	HEMBA1005219	F-HEMBA1005219	751	R-HEMBA1005219	6271

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	HEMBA1005232	F-HEMBA1005232	753	R-HEMBA1005232	6273
	HEMBA1005241	F-HEMBA1005241	754	R-HEMBA1005241	6274
	HEMBA1005244	F-HEMBA1005244	755	R-HEMBA1005244	6275
5	HEMBA1005251	F-HEMBA1005251	756	R-HEMBA1005251	6276
	HEMBA1005252	F-HEMBA1005252	757	R-HEMBA1005252	6277
	HEMBA1005274	F-HEMBA1005274	758	R-HEMBA1005274	6278
	HEMBA1005275	F-HEMBA1005275	759	R-HEMBA1005275	6279
	HEMBA1005293	F-HEMBA1005293	760	R-HEMBA1005293	6280
10	HEMBA1005296	F-HEMBA1005296	761	R-HEMBA1005296	6281
	HEMBA1005304	F-HEMBA1005304	762	R-HEMBA1005304	6282
	HEMBA1005311	F-HEMBA1005311	763	R-HEMBA1005311	6283
	HEMBA1005314	F-HEMBA1005314	764	R-HEMBA1005314	6284
	HEMBA1005315	F-HEMBA1005315	765	R-HEMBA1005315	6285
15	HEMBA1005318	F-HEMBA1005318	766	R-HEMBA1005318	6286
	HEMBA1005331	F-HEMBA1005331	767	R-HEMBA1005331	6287
	HEMBA1005338	F-HEMBA1005338	768		
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	HEMBA1005359	F-HEMBA1005359	770	R-HEMBA1005359	6289
20	HEMBA1005367	F-HEMBA1005367	771	R-HEMBA1005367	6290
	HEMBA1005372	F-HEMBA1005372	772	R-HEMBA1005372	6291
	HEMBA1005374	F-HEMBA1005374	773	R-HEMBA1005374	6292
	HEMBA1005382	F-HEMBA1005382	774		
	HEMBA1005389	F-HEMBA1005389	775	R-HEMBA1005389	6293
25	HEMBA1005394	F-HEMBA1005394	776	R-HEMBA1005394	6294
	HEMBA1005403	F-HEMBA1005403	777	R-HEMBA1005403	6295
	HEMBA1005408	F-HEMBA1005408	778	R-HEMBA1005408	6296
	HEMBA1005410	F-HEMBA1005410	779	R-HEMBA1005410	6297
	HEMBA1005411	F-HEMBA1005411	780	R-HEMBA1005411	6298
30	HEMBA1005423	F-HEMBA1005423	781	R-HEMBA1005423	6299
	HEMBA1005426	F-HEMBA1005426	782	R-HEMBA1005426	6300
	HEMBA1005443	F-HEMBA1005443	783	R-HEMBA1005443	6301
	HEMBA1005447	F-HEMBA1005447	784	R-HEMBA1005447	6302
	HEMBA1005468	F-HEMBA1005468	785	R-HEMBA1005468	6303
35	HEMBA1005469	F-HEMBA1005469	786	R-HEMBA1005469	6304
	HEMBA1005472	F-HEMBA1005472	787	R-HEMBA1005472	6305
	HEMBA1005474	F-HEMBA1005474	788		
	HEMBA1005475	F-HEMBA1005475	789	R-HEMBA1005475	6306
	HEMBA1005497	F-HEMBA1005497	790	R-HEMBA1005497	6307
40	HEMBA1005500	F-HEMBA1005500	791	R-HEMBA1005500	6308
	HEMBA1005506	F-HEMBA1005506	792	R-HEMBA1005506	6309
	HEMBA1005508	F-HEMBA1005508	793	R-HEMBA1005508	6310
	HEMBA1005511	F-HEMBA1005511	794	R-HEMBA1005511	6311
	HEMBA1005513	F-HEMBA1005513	795		
45	HEMBA1005517	F-HEMBA1005517	796	R-HEMBA1005517	6312
	HEMBA1005518	F-HEMBA1005518	797	R-HEMBA1005518	6313

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	HEMBA1005526	F-HEMBA1005526	799		R-HEMBA1005526	6315
	HEMBA1005528	F-HEMBA1005528	800		R-HEMBA1005528	6316
	HEMBA1005530	F-HEMBA1005530	801		R-HEMBA1005530	6317
5	HEMBA1005548	F-HEMBA1005548	802		R-HEMBA1005548	6318
	HEMBA1005552	F-HEMBA1005552	803		R-HEMBA1005552	6319
	HEMBA1005558	F-HEMBA1005558	804		R-HEMBA1005558	6320
	HEMBA1005568	F-HEMBA1005568	805		R-HEMBA1005568	6321
	HEMBA1005570	F-HEMBA1005570	806		R-HEMBA1005570	6322
10	HEMBA1005576	F-HEMBA1005576	807		R-HEMBA1005576	6323
	HEMBA1005577	F-HEMBA1005577	808		R-HEMBA1005577	6324
	HEMBA1005581	F-HEMBA1005581	809		R-HEMBA1005581	6325
	HEMBA1005582	F-HEMBA1005582	810		R-HEMBA1005582	6326
	HEMBA1005583	F-HEMBA1005583	811		R-HEMBA1005583	6327
15	HEMBA1005588	F-HEMBA1005588	812		R-HEMBA1005588	6328
	HEMBA1005593	F-HEMBA1005593	813		R-HEMBA1005593	6329
	HEMBA1005595	F-HEMBA1005595	814		R-HEMBA1005595	6330
	HEMBA1005606	F-HEMBA1005606	815		R-HEMBA1005606	6331
	HEMBA1005609	F-HEMBA1005609	816		R-HEMBA1005609	6332
20	HEMBA1005616	F-HEMBA1005616	817		R-HEMBA1005616	6333
	HEMBA1005621	F-HEMBA1005621	818		R-HEMBA1005621	6334
	HEMBA1005627	F-HEMBA1005627	819		R-HEMBA1005627	6335
	HEMBA1005631	F-HEMBA1005631	820		R-HEMBA1005631	6336
	HEMBA1005632	F-HEMBA1005632	821		R-HEMBA1005632	6337
25	HEMBA1005634	F-HEMBA1005634	822		R-HEMBA1005634	6338
	HEMBA1005666	F-HEMBA1005666	823		R-HEMBA1005666	6339
	HEMBA1005670	F-HEMBA1005670	824		R-HEMBA1005670	6340
	HEMBA1005679	F-HEMBA1005679	825		R-HEMBA1005679	6341
	HEMBA1005680	F-HEMBA1005680	826		R-HEMBA1005680	6342
30	HEMBA1005685	F-HEMBA1005685	827		R-HEMBA1005685	6343
	HEMBA1005699	F-HEMBA1005699	828		R-HEMBA1005699	6344
	HEMBA1005705	F-HEMBA1005705	829		R-HEMBA1005705	6345
	HEMBA1005717	F-HEMBA1005717	830		R-HEMBA1005717	6346
	HEMBA1005732	F-HEMBA1005732	831		R-HEMBA1005732	6347
35	HEMBA1005737	F-HEMBA1005737	832		R-HEMBA1005737	6348
	HEMBA1005746	F-HEMBA1005746	833		R-nnnnnnnnnnnnn	6349
	HEMBA1005755	F-HEMBA1005755	834		R-HEMBA1005755	6350
	HEMBA1005765	F-HEMBA1005765	835		R-HEMBA1005765	6351
	HEMBA1005780	F-HEMBA1005780	836		R-HEMBA1005780	6352
40	HEMBA1005813	F-HEMBA1005813	837		R-HEMBA1005813	6353
	HEMBA1005815	F-HEMBA1005815	838		R-HEMBA1005815	6354
	HEMBA1005822	F-HEMBA1005822	839		R-HEMBA1005822	6355
	HEMBA1005829	F-HEMBA1005829	840		R-HEMBA1005829	6356
	HEMBA1005834	F-HEMBA1005834	841		R-HEMBA1005834	6357
45	HEMBA1005852	F-HEMBA1005852	842		R-HEMBA1005852	6358
	HEMBA1005853	F-HEMBA1005853	843		R-HEMBA1005853	6359

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	HEMBA1005884	F-HEMBA1005884	844	R-HEMBA1005884	6360
	HEMBA1005891	F-HEMBA1005891	845	R-HEMBA1005891	6361
	HEMBA1005894	F-HEMBA1005894	846	R-HEMBA1005894	6362
	HEMBA1005909	F-HEMBA1005909	847	R-HEMBA1005909	6363
5	HEMBA1005911	F-HEMBA1005911	848	R-HEMBA1005911	6364
	HEMBA1005921	F-HEMBA1005921	849	R-HEMBA1005921	6365
	HEMBA1005931	F-HEMBA1005931	850	R-HEMBA1005931	6366
	HEMBA1005934	F-HEMBA1005934	851	R-HEMBA1005934	6367
	HEMBA1005962	F-HEMBA1005962	852	R-HEMBA1005962	6368
10	HEMBA1005963	F-HEMBA1005963	853	R-HEMBA1005963	6369
	HEMBA1005990	F-HEMBA1005990	854	R-HEMBA1005990	6370
	HEMBA1005991	F-HEMBA1005991	855	R-HEMBA1005991	6371
	HEMBA1005999	F-HEMBA1005999	856	R-HEMBA1005999	6372
	HEMBA1006002	F-HEMBA1006002	857	R-HEMBA1006002	6373
15	HEMBA1006005	F-HEMBA1006005	858	R-HEMBA1006005	6374
	HEMBA1006031	F-HEMBA1006031	859	R-nnnnnnnnnnnnn	6375
	HEMBA1006035	F-HEMBA1006035	860	R-HEMBA1006035	6376
	HEMBA1006036	F-HEMBA1006036	861	R-HEMBA1006036	6377
	HEMBA1006042	F-HEMBA1006042	862	R-HEMBA1006042	6378
20	HEMBA1006067	F-HEMBA1006067	863	R-nnnnnnnnnnnnn	6379
	HEMBA1006081	F-HEMBA1006081	864	R-HEMBA1006081	6380
	HEMBA1006090	F-HEMBA1006090	865	R-HEMBA1006090	6381
	HEMBA1006091	F-HEMBA1006091	866	R-HEMBA1006091	6382
	HEMBA1006100	F-HEMBA1006100	867	R-HEMBA1006100	6383
25	HEMBA1006108	F-HEMBA1006108	868	R-HEMBA1006108	6384
	HEMBA1006121	F-HEMBA1006121	869	R-HEMBA1006121	6385
	HEMBA1006124	F-HEMBA1006124	870	R-HEMBA1006124	6386
	HEMBA1006130	F-HEMBA1006130	871	R-HEMBA1006130	6387
	HEMBA1006138	F-HEMBA1006138	872	R-nnnnnnnnnnnnn	6388
30	HEMBA1006142	F-HEMBA1006142	873	R-HEMBA1006142	6389
	HEMBA1006155	F-HEMBA1006155	874	R-HEMBA1006155	6390
	HEMBA1006158	F-HEMBA1006158	875	R-HEMBA1006158	6391
	HEMBA1006173	F-HEMBA1006173	876	R-HEMBA1006173	6392
	HEMBA1006182	F-HEMBA1006182	877	R-HEMBA1006182	6393
35	HEMBA1006198	F-HEMBA1006198	878	R-HEMBA1006198	6394
	HEMBA1006235	F-HEMBA1006235	879	R-HEMBA1006235	6395
	HEMBA1006248	F-HEMBA1006248	880	R-HEMBA1006248	6396
	HEMBA1006252	F-HEMBA1006252	881	R-HEMBA1006252	6397
	HEMBA1006253	F-HEMBA1006253	882	R-HEMBA1006253	6398
40	HEMBA1006259	F-HEMBA1006259	883	R-HEMBA1006259	6399
	HEMBA1006268	F-HEMBA1006268	884	R-HEMBA1006268	6400
	HEMBA1006272	F-HEMBA1006272	885	R-HEMBA1006272	6401
	HEMBA1006278	F-HEMBA1006278	886	R-nnnnnnnnnnnnn	6402
	HEMBA1006283	F-HEMBA1006283	887	R-HEMBA1006283	6403
45	HEMBA1006284	F-HEMBA1006284	888	R-HEMBA1006284	6404
	HEMBA1006291	F-HEMBA1006291	889	R-HEMBA1006291	6405

	HEMBA1006293	F-HEMBA1006293	890	R-HEMBA1006293	6406
	HEMBA1006309	F-HEMBA1006309	891	R-HEMBA1006309	6407
	HEMBA1006310	F-HEMBA1006310	892	R-HEMBA1006310	6408
	HEMBA1006328	F-HEMBA1006328	893	R-HEMBA1006328	6409
5	HEMBA1006334	F-HEMBA1006334	894	R-HEMBA1006334	6410
	HEMBA1006344	F-HEMBA1006344	895	R-HEMBA1006344	6411
	HEMBA1006347	F-HEMBA1006347	896	R-HEMBA1006347	6412
	HEMBA1006349	F-HEMBA1006349	897	R-HEMBA1006349	6413
	HEMBA1006359	F-HEMBA1006359	898	R-HEMBA1006359	6414
10	HEMBA1006364	F-HEMBA1006364	899	R-HEMBA1006364	6415
	HEMBA1006377	F-HEMBA1006377	900	R-HEMBA1006377	6416
	HEMBA1006380	F-HEMBA1006380	901	R-HEMBA1006380	6417
	HEMBA1006381	F-HEMBA1006381	902	R-HEMBA1006381	6418
	HEMBA1006398	F-HEMBA1006398	903	R-HEMBA1006398	6419
15	HEMBA1006416	F-HEMBA1006416	904	R-HEMBA1006416	6420
	HEMBA1006419	F-HEMBA1006419	905	R-HEMBA1006419	6421
	HEMBA1006421	F-HEMBA1006421	906	R-HEMBA1006421	6422
	HEMBA1006424	F-HEMBA1006424	907	R-HEMBA1006424	6423
	HEMBA1006426	F-HEMBA1006426	908	R-HEMBA1006426	6424
20	HEMBA1006438	F-HEMBA1006438	909	R-HEMBA1006438	6425
	HEMBA1006445	F-HEMBA1006445	910	R-HEMBA1006445	6426
	HEMBA1006446	F-HEMBA1006446	911	R-HEMBA1006446	6427
	HEMBA1006461	F-HEMBA1006461	912	R-HEMBA1006461	6428
	HEMBA1006467	F-HEMBA1006467	913	R-HEMBA1006467	6429
25	HEMBA1006471	F-HEMBA1006471	914	R-HEMBA1006471	6430
	HEMBA1006474	F-HEMBA1006474	915	R-HEMBA1006474	6431
	HEMBA1006483	F-HEMBA1006483	916	R-HEMBA1006483	6432
	HEMBA1006485	F-HEMBA1006485	917	R-HEMBA1006485	6433
	HEMBA1006486	F-HEMBA1006486	918	R-HEMBA1006486	6434
30	HEMBA1006489	F-HEMBA1006489	919	R-HEMBA1006489	6435
	HEMBA1006492	F-HEMBA1006492	920	R-HEMBA1006492	6436
	HEMBA1006494	F-HEMBA1006494	921	R-HEMBA1006494	6437
	HEMBA1006497	F-HEMBA1006497	922	R-HEMBA1006497	6438
	HEMBA1006502	F-HEMBA1006502	923	R-HEMBA1006502	6439
35	HEMBA1006507	F-HEMBA1006507	924	R-HEMBA1006507	6440
	HEMBA1006521	F-HEMBA1006521	925	R-HEMBA1006521	6441
	HEMBA1006530	F-HEMBA1006530	926	R-HEMBA1006530	6442
	HEMBA1006535	F-HEMBA1006535	927	R-HEMBA1006535	6443
	HEMBA1006540	F-HEMBA1006540	928	R-HEMBA1006540	6444
40	HEMBA1006546	F-HEMBA1006546	929	R-HEMBA1006546	6445
	HEMBA1006559	F-HEMBA1006559	930	R-HEMBA1006559	6446
	HEMBA1006562	F-HEMBA1006562	931	R-HEMBA1006562	6447
	HEMBA1006566	F-HEMBA1006566	932	R-HEMBA1006566	6448
	HEMBA1006569	F-HEMBA1006569	933	R-HEMBA1006569	6449
45	HEMBA1006579	F-HEMBA1006579	934	R-HEMBA1006579	6450
	HEMBA1006583	F-HEMBA1006583	935	R-HEMBA1006583	6451

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	HEMBA1006595	F-HEMBA1006595	936	R-HEMBA1006595	6452
	HEMBA1006597	F-HEMBA1006597	937	R-HEMBA1006597	6453
	HEMBA1006612	F-HEMBA1006612	938	R-HEMBA1006612	6454
	HEMBA1006617	F-HEMBA1006617	939	R-nnnnnnnnnnnnnnn	6455
5	HEMBA1006624	F-HEMBA1006624	940	R-HEMBA1006624	6456
	HEMBA1006631	F-HEMBA1006631	941	R-HEMBA1006631	6457
	HEMBA1006635	F-HEMBA1006635	942	R-HEMBA1006635	6458
	HEMBA1006639	F-HEMBA1006639	943	R-HEMBA1006639	6459
	HEMBA1006643	F-HEMBA1006643	944	R-HEMBA1006643	6460
10	HEMBA1006648	F-HEMBA1006648	945	R-HEMBA1006648	6461
	HEMBA1006652	F-HEMBA1006652	946	R-HEMBA1006652	6462
	HEMBA1006653	F-HEMBA1006653	947	R-HEMBA1006653	6463
	HEMBA1006659	F-HEMBA1006659	948		
	HEMBA1006665	F-HEMBA1006665	949	R-HEMBA1006665	6464
15	HEMBA1006674	F-HEMBA1006674	950	R-HEMBA1006674	6465
	HEMBA1006676	F-HEMBA1006676	951	R-HEMBA1006676	6466
	HEMBA1006682	F-HEMBA1006682	952	R-HEMBA1006682	6467
	HEMBA1006695	F-HEMBA1006695	953	R-HEMBA1006695	6468
	HEMBA1006696	F-HEMBA1006696	954	R-HEMBA1006696	6469
20	HEMBA1006708	F-HEMBA1006708	955	R-HEMBA1006708	6470
	HEMBA1006709	F-HEMBA1006709	956	R-HEMBA1006709	6471
	HEMBA1006717	F-HEMBA1006717	957	R-HEMBA1006717	6472
	HEMBA1006737	F-HEMBA1006737	958	R-HEMBA1006737	6473
	HEMBA1006744	F-HEMBA1006744	959	R-HEMBA1006744	6474
25	HEMBA1006754	F-HEMBA1006754	960	R-HEMBA1006754	6475
	HEMBA1006758	F-HEMBA1006758	961	R-HEMBA1006758	6476
	HEMBA1006767	F-HEMBA1006767	962	R-HEMBA1006767	6477
	HEMBA1006779	F-HEMBA1006779	963	R-HEMBA1006779	6478
	HEMBA1006780	F-HEMBA1006780	964	R-HEMBA1006780	6479
30	HEMBA1006789	F-HEMBA1006789	965	R-HEMBA1006789	6480
	HEMBA1006795	F-HEMBA1006795	966	R-HEMBA1006795	6481
	HEMBA1006796	F-HEMBA1006796	967	R-HEMBA1006796	6482
	HEMBA1006807	F-HEMBA1006807	968	R-HEMBA1006807	6483
	HEMBA1006821	F-HEMBA1006821	969	R-HEMBA1006821	6484
35	HEMBA1006824	F-HEMBA1006824	970	R-HEMBA1006824	6485
	HEMBA1006832	F-HEMBA1006832	971	R-HEMBA1006832	6486
	HEMBA1006849	F-HEMBA1006849	972	R-HEMBA1006849	6487
	HEMBA1006865	F-HEMBA1006865	973	R-HEMBA1006865	6488
	HEMBA1006877	F-HEMBA1006877	974	R-nnnnnnnnnnnnnnn	6489
40	HEMBA1006885	F-HEMBA1006885	975	R-HEMBA1006885	6490
	HEMBA1006900	F-HEMBA1006900	976	R-HEMBA1006900	6491
	HEMBA1006914	F-HEMBA1006914	977		
	HEMBA1006921	F-HEMBA1006921	978	R-HEMBA1006921	6492
	HEMBA1006926	F-HEMBA1006926	979	R-HEMBA1006926	6493
45	HEMBA1006929	F-HEMBA1006929	980	R-HEMBA1006929	6494
	HEMBA1006936	F-HEMBA1006936	981	R-HEMBA1006936	6495

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	HEMBA1006938	F-HEMBA1006938	982	R-HEMBA1006938	6496
	HEMBA1006941	F-HEMBA1006941	983	R-HEMBA1006941	6497
	HEMBA1006949	F-HEMBA1006949	984	R-HEMBA1006949	6498
	HEMBA1006973	F-HEMBA1006973	985	R-HEMBA1006973	6499
5	HEMBA1006976	F-HEMBA1006976	986	R-HEMBA1006976	6500
	HEMBA1006993	F-HEMBA1006993	987	R-HEMBA1006993	6501
	HEMBA1006996	F-HEMBA1006996	988	R-HEMBA1006996	6502
	HEMBA1007002	F-HEMBA1007002	989	R-HEMBA1007002	6503
	HEMBA1007017	F-HEMBA1007017	990	R-HEMBA1007017	6504
10	HEMBA1007018	F-HEMBA1007018	991	R-HEMBA1007018	6505
	HEMBA1007045	F-HEMBA1007045	992	R-HEMBA1007045	6506
	HEMBA1007051	F-HEMBA1007051	993	R-HEMBA1007051	6507
	HEMBA1007052	F-HEMBA1007052	994	R-HEMBA1007052	6508
	HEMBA1007062	F-HEMBA1007062	995	R-HEMBA1007062	6509
15	HEMBA1007066	F-HEMBA1007066	996	R-HEMBA1007066	6510
	HEMBA1007073	F-HEMBA1007073	997	R-HEMBA1007073	6511
	HEMBA1007078	F-HEMBA1007078	998	R-HEMBA1007078	6512
	HEMBA1007080	F-HEMBA1007080	999		
	HEMBA1007085	F-HEMBA1007085	1000	R-HEMBA1007085	6513
20	HEMBA1007087	F-HEMBA1007087	1001	R-HEMBA1007087	6514
	HEMBA1007112	F-HEMBA1007112	1002	R-HEMBA1007112	6515
	HEMBA1007113	F-HEMBA1007113	1003	R-HEMBA1007113	6516
	HEMBA1007121	F-HEMBA1007121	1004		
	HEMBA1007129	F-HEMBA1007129	1005	R-HEMBA1007129	6517
25	HEMBA1007147	F-HEMBA1007147	1006	R-HEMBA1007147	6518
	HEMBA1007149	F-HEMBA1007149	1007	R-HEMBA1007149	6519
	HEMBA1007151	F-HEMBA1007151	1008	R-HEMBA1007151	6520
	HEMBA1007174	F-HEMBA1007174	1009	R-nnnnnnnnnnnnn	6521
	HEMBA1007178	F-HEMBA1007178	1010	R-HEMBA1007178	6522
30	HEMBA1007194	F-HEMBA1007194	1011	R-HEMBA1007194	6523
	HEMBA1007203	F-HEMBA1007203	1012	R-HEMBA1007203	6524
	HEMBA1007206	F-HEMBA1007206	1013	R-HEMBA1007206	6525
	HEMBA1007224	F-HEMBA1007224	1014	R-HEMBA1007224	6526
	HEMBA1007243	F-HEMBA1007243	1015		
35	HEMBA1007251	F-HEMBA1007251	1016	R-HEMBA1007251	6527
	HEMBA1007256	F-HEMBA1007256	1017	R-HEMBA1007256	6528
	HEMBA1007267	F-HEMBA1007267	1018	R-HEMBA1007267	6529
	HEMBA1007273	F-HEMBA1007273	1019	R-HEMBA1007273	6530
	HEMBA1007279	F-HEMBA1007279	1020	R-HEMBA1007279	6531
40	HEMBA1007281	F-HEMBA1007281	1021	R-HEMBA1007281	6532
	HEMBA1007288	F-HEMBA1007288	1022	R-HEMBA1007288	6533
	HEMBA1007300	F-HEMBA1007300	1023	R-HEMBA1007300	6534
	HEMBA1007301	F-HEMBA1007301	1024	R-HEMBA1007301	6535
	HEMBA1007319	F-HEMBA1007319	1025	R-HEMBA1007319	6536
45	HEMBA1007320	F-HEMBA1007320	1026	R-HEMBA1007320	6537
	HEMBA1007322	F-HEMBA1007322	1027	R-HEMBA1007322	6538

	HEMBA1007327	F-HEMBA1007327	1028	R-HEMBA1007327	6539
	HEMBA1007341	F-HEMBA1007341	1029	R-HEMBA1007341	6540
	HEMBA1007342	F-HEMBA1007342	1030	R-HEMBA1007342	6541
	HEMBA1007347	F-HEMBA1007347	1031	R-HEMBA1007347	6542
5	HEMBB1000005	F-HEMBB1000005	1032	R-HEMBB1000005	6543
	HEMBB1000008	F-HEMBB1000008	1033	R-HEMBB1000008	6544
	HEMBB1000018	F-HEMBB1000018	1034	R-HEMBB1000018	6545
	HEMBB1000024	F-HEMBB1000024	1035	R-HEMBB1000024	6546
	HEMBB1000025	F-HEMBB1000025	1036	R-HEMBB1000025	6547
10	HEMBB1000030	F-HEMBB1000030	1037	R-HEMBB1000030	6548
	HEMBB1000036	F-HEMBB1000036	1038	R-HEMBB1000036	6549
	HEMBB1000037	F-HEMBB1000037	1039	R-HEMBB1000037	6550
	HEMBB1000039	F-HEMBB1000039	1040	R-HEMBB1000039	6551
	HEMBB1000044	F-HEMBB1000044	1041	R-HEMBB1000044	6552
15	HEMBB1000048	F-HEMBB1000048	1042	R-HEMBB1000048	6553
	HEMBB1000050	F-HEMBB1000050	1043	R-HEMBB1000050	6554
	HEMBB1000054	F-HEMBB1000054	1044	R-HEMBB1000054	6555
	HEMBB1000055	F-HEMBB1000055	1045	R-HEMBB1000055	6556
	HEMBB1000059	F-HEMBB1000059	1046	R-HEMBB1000059	6557
20	HEMBB1000083	F-HEMBB1000083	1047	R-HEMBB1000083	6558
	HEMBB1000089	F-HEMBB1000089	1048	R-HEMBB1000089	6559
	HEMBB1000099	F-HEMBB1000099	1049	R-HEMBB1000099	6560
	HEMBB1000103	F-HEMBB1000103	1050	R-HEMBB1000103	6561
	HEMBB1000113	F-HEMBB1000113	1051	R-HEMBB1000113	6562
25	HEMBB1000119	F-HEMBB1000119	1052	R-HEMBB1000119	6563
	HEMBB1000136	F-HEMBB1000136	1053	R-HEMBB1000136	6564
	HEMBB1000141	F-HEMBB1000141	1054	R-HEMBB1000141	6565
	HEMBB1000144	F-HEMBB1000144	1055	R-HEMBB1000144	6566
	HEMBB1000173	F-HEMBB1000173	1056	R-HEMBB1000173	6567
30	HEMBB1000175	F-HEMBB1000175	1057	R-HEMBB1000175	6568
	HEMBB1000198	F-HEMBB1000198	1058	R-HEMBB1000198	6569
	HEMBB1000215	F-HEMBB1000215	1059	R-HEMBB1000215	6570
	HEMBB1000217	F-HEMBB1000217	1060	R-HEMBB1000217	6571
	HEMBB1000218	F-HEMBB1000218	1061	R-HEMBB1000218	6572
35	HEMBB1000226	F-HEMBB1000226	1062	R-HEMBB1000226	6573
	HEMBB1000240	F-HEMBB1000240	1063	R-HEMBB1000240	6574
	HEMBB1000244	F-HEMBB1000244	1064	R-HEMBB1000244	6575
	HEMBB1000250	F-HEMBB1000250	1065	R-HEMBB1000250	6576
	HEMBB1000258	F-HEMBB1000258	1066	R-HEMBB1000258	6577
40	HEMBB1000264	F-HEMBB1000264	1067	R-HEMBB1000264	6578
	HEMBB1000266	F-HEMBB1000266	1068	R-HEMBB1000266	6579
	HEMBB1000272	F-HEMBB1000272	1069	R-HEMBB1000272	6580
	HEMBB1000274	F-HEMBB1000274	1070	R-HEMBB1000274	6581
	HEMBB1000284	F-HEMBB1000284	1071	R-HEMBB1000284	6582
45	HEMBB1000307	F-HEMBB1000307	1072	R-HEMBB1000307	6583
	HEMBB1000312	F-HEMBB1000312	1073	R-HEMBB1000312	6584

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	HEMBB1000317	F-HEMBB1000317	1074	R-HEMBB1000317	6585
	HEMBB1000318	F-HEMBB1000318	1075	R-HEMBB1000318	6586
	HEMBB1000335	F-HEMBB1000335	1076	R-HEMBB1000335	6587
	HEMBB1000336	F-HEMBB1000336	1077	R-HEMBB1000336	6588
5	HEMBB1000337	F-HEMBB1000337	1078	R-HEMBB1000337	6589
	HEMBB1000338	F-HEMBB1000338	1079	R-HEMBB1000338	6590
	HEMBB1000339	F-HEMBB1000339	1080	R-HEMBB1000339	6591
	HEMBB1000341	F-HEMBB1000341	1081	R-HEMBB1000341	6592
	HEMBB1000343	F-HEMBB1000343	1082	R-HEMBB1000343	6593
10	HEMBB1000354	F-HEMBB1000354	1083	R-HEMBB1000354	6594
	HEMBB1000369	F-HEMBB1000369	1084	R-HEMBB1000369	6595
	HEMBB1000374	F-HEMBB1000374	1085	R-HEMBB1000374	6596
	HEMBB1000376	F-HEMBB1000376	1086	R-HEMBB1000376	6597
	HEMBB1000391	F-HEMBB1000391	1087	R-HEMBB1000391	6598
15	HEMBB1000399	F-HEMBB1000399	1088	R-HEMBB1000399	6599
	HEMBB1000402	F-HEMBB1000402	1089	R-HEMBB1000402	6600
	HEMBB1000404	F-HEMBB1000404	1090	R-HEMBB1000404	6601
	HEMBB1000420	F-HEMBB1000420	1091	R-HEMBB1000420	6602
	HEMBB1000434	F-HEMBB1000434	1092	R-HEMBB1000434	6603
20	HEMBB1000438	F-HEMBB1000438	1093	R-HEMBB1000438	6604
	HEMBB1000441	F-HEMBB1000441	1094	R-HEMBB1000441	6605
	HEMBB1000449	F-HEMBB1000449	1095	R-HEMBB1000449	6606
	HEMBB1000455	F-HEMBB1000455	1096	R-HEMBB1000455	6607
	HEMBB1000472	F-HEMBB1000472	1097	R-HEMBB1000472	6608
25	HEMBB1000480	F-HEMBB1000480	1098	R-HEMBB1000480	6609
	HEMBB1000487	F-HEMBB1000487	1099	R-HEMBB1000487	6610
	HEMBB1000490	F-HEMBB1000490	1100	R-HEMBB1000490	6611
	HEMBB1000491	F-HEMBB1000491	1101	R-HEMBB1000491	6612
	HEMBB1000493	F-HEMBB1000493	1102	R-HEMBB1000493	6613
30	HEMBB1000510	F-HEMBB1000510	1103	R-HEMBB1000510	6614
	HEMBB1000518	F-HEMBB1000518	1104	R-HEMBB1000518	6615
	HEMBB1000523	F-HEMBB1000523	1105	R-HEMBB1000523	6616
	HEMBB1000530	F-HEMBB1000530	1106	R-HEMBB1000530	6617
	HEMBB1000550	F-HEMBB1000550	1107	R-HEMBB1000550	6618
35	HEMBB1000554	F-HEMBB1000554	1108	R-HEMBB1000554	6619
	HEMBB1000556	F-HEMBB1000556	1109	R-HEMBB1000556	6620
	HEMBB1000564	F-HEMBB1000564	1110	R-HEMBB1000564	6621
	HEMBB1000573	F-HEMBB1000573	1111	R-HEMBB1000573	6622
	HEMBB1000575	F-HEMBB1000575	1112	R-HEMBB1000575	6623
40	HEMBB1000586	F-HEMBB1000586	1113	R-HEMBB1000586	6624
	HEMBB1000589	F-HEMBB1000589	1114	R-HEMBB1000589	6625
	HEMBB1000591	F-HEMBB1000591	1115	R-HEMBB1000591	6626
	HEMBB1000592	F-HEMBB1000592	1116	R-HEMBB1000592	6627
	HEMBB1000593	F-HEMBB1000593	1117		
45	HEMBB1000598	F-HEMBB1000598	1118	R-HEMBB1000598	6628
	HEMBB1000623	F-HEMBB1000623	1119	R-HEMBB1000623	6629

	HEMBB1000630	F-HEMBB1000630	1120	R-HEMBB1000630	6630
	HEMBB1000631	F-HEMBB1000631	1121	R-HEMBB1000631	6631
	HEMBB1000632	F-HEMBB1000632	1122	R-HEMBB1000632	6632
	HEMBB1000637	F-HEMBB1000637	1123	R-HEMBB1000637	6633
5	HEMBB1000638	F-HEMBB1000638	1124	R-HEMBB1000638	6634
	HEMBB1000643	F-HEMBB1000643	1125	R-HEMBB1000643	6635
	HEMBB1000649	F-HEMBB1000649	1126	R-HEMBB1000649	6636
	HEMBB1000652	F-HEMBB1000652	1127	R-HEMBB1000652	6637
	HEMBB1000665	F-HEMBB1000665	1128	R-HEMBB1000665	6638
10	HEMBB1000671	F-HEMBB1000671	1129	R-HEMBB1000671	6639
	HEMBB1000673	F-HEMBB1000673	1130	R-HEMBB1000673	6640
	HEMBB1000684	F-HEMBB1000684	1131	R-HEMBB1000684	6641
	HEMBB1000693	F-HEMBB1000693	1132	R-nnnnnnnnnnnnn	6642
	HEMBB1000705	F-HEMBB1000705	1133	R-HEMBB1000705	6643
15	HEMBB1000706	F-HEMBB1000706	1134	R-HEMBB1000706	6644
	HEMBB1000709	F-HEMBB1000709	1135	R-HEMBB1000709	6645
	HEMBB1000725	F-HEMBB1000725	1136	R-HEMBB1000725	6646
	HEMBB1000726	F-HEMBB1000726	1137	R-HEMBB1000726	6647
	HEMBB1000738	F-HEMBB1000738	1138	R-HEMBB1000738	6648
20	HEMBB1000749	F-HEMBB1000749	1139	R-HEMBB1000749	6649
	HEMBB1000763	F-HEMBB1000763	1140	R-HEMBB1000763	6650
	HEMBB1000770	F-HEMBB1000770	1141	R-HEMBB1000770	6651
	HEMBB1000774	F-HEMBB1000774	1142		
	HEMBB1000781	F-HEMBB1000781	1143	R-HEMBB1000781	6652
25	HEMBB1000789	F-HEMBB1000789	1144	R-HEMBB1000789	6653
	HEMBB1000790	F-HEMBB1000790	1145	R-HEMBB1000790	6654
	HEMBB1000794	F-HEMBB1000794	1146	R-HEMBB1000794	6655
	HEMBB1000807	F-HEMBB1000807	1147	R-HEMBB1000807	6656
	HEMBB1000810	F-HEMBB1000810	1148	R-HEMBB1000810	6657
30	HEMBB1000821	F-HEMBB1000821	1149	R-HEMBB1000821	6658
	HEMBB1000822	F-HEMBB1000822	1150	R-HEMBB1000822	6659
	HEMBB1000826	F-HEMBB1000826	1151	R-HEMBB1000826	6660
	HEMBB1000827	F-HEMBB1000827	1152	R-HEMBB1000827	6661
	HEMBB1000831	F-HEMBB1000831	1153	R-HEMBB1000831	6662
35	HEMBB1000835	F-HEMBB1000835	1154	R-HEMBB1000835	6663
	HEMBB1000840	F-HEMBB1000840	1155	R-HEMBB1000840	6664
	HEMBB1000848	F-HEMBB1000848	1156	R-HEMBB1000848	6665
	HEMBB1000852	F-HEMBB1000852	1157	R-HEMBB1000852	6666
	HEMBB1000870	F-HEMBB1000870	1158	R-HEMBB1000870	6667
40	HEMBB1000876	F-HEMBB1000876	1159	R-HEMBB1000876	6668
	HEMBB1000883	F-HEMBB1000883	1160	R-HEMBB1000883	6669
	HEMBB1000887	F-HEMBB1000887	1161	R-HEMBB1000887	6670
	HEMBB1000888	F-HEMBB1000888	1162	R-HEMBB1000888	6671
	HEMBB1000890	F-HEMBB1000890	1163	R-HEMBB1000890	6672
45	HEMBB1000893	F-HEMBB1000893	1164	R-HEMBB1000893	6673
	HEMBB1000908	F-HEMBB1000908	1165	R-HEMBB1000908	6674

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	HEMBB1000910	F-HEMBB1000910	1166	R-HEMBB1000910	6675
	HEMBB1000913	F-HEMBB1000913	1167	R-HEMBB1000913	6676
	HEMBB1000915	F-HEMBB1000915	1168	R-HEMBB1000915	6677
	HEMBB1000917	F-HEMBB1000917	1169	R-HEMBB1000917	6678
5	HEMBB1000927	F-HEMBB1000927	1170	R-HEMBB1000927	6679
	HEMBB1000947	F-HEMBB1000947	1171	R-HEMBB1000947	6680
	HEMBB1000959	F-HEMBB1000959	1172	R-HEMBB1000959	6681
	HEMBB1000973	F-HEMBB1000973	1173	R-HEMBB1000973	6682
	HEMBB1000975	F-HEMBB1000975	1174	R-HEMBB1000975	6683
10	HEMBB1000981	F-HEMBB1000981	1175	R-HEMBB1000981	6684
	HEMBB1000985	F-HEMBB1000985	1176	R-HEMBB1000985	6685
	HEMBB1000991	F-HEMBB1000991	1177	R-HEMBB1000991	6686
	HEMBB1000996	F-HEMBB1000996	1178	R-HEMBB1000996	6687
	HEMBB1001004	F-HEMBB1001004	1179	R-HEMBB1001004	6688
15	HEMBB1001008	F-HEMBB1001008	1180	R-HEMBB1001008	6689
	HEMBB1001011	F-HEMBB1001011	1181	R-HEMBB1001011	6690
	HEMBB1001014	F-HEMBB1001014	1182	R-HEMBB1001014	6691
	HEMBB1001020	F-HEMBB1001020	1183	R-HEMBB1001020	6692
	HEMBB1001024	F-HEMBB1001024	1184	R-HEMBB1001024	6693
20	HEMBB1001037	F-HEMBB1001037	1185	R-HEMBB1001037	6694
	HEMBB1001047	F-HEMBB1001047	1186	R-HEMBB1001047	6695
	HEMBB1001051	F-HEMBB1001051	1187	R-HEMBB1001051	6696
	HEMBB1001056	F-HEMBB1001056	1188	R-HEMBB1001056	6697
	HEMBB1001058	F-HEMBB1001058	1189	R-HEMBB1001058	6698
25	HEMBB1001060	F-HEMBB1001060	1190	R-HEMBB1001060	6699
	HEMBB1001063	F-HEMBB1001063	1191	R-HEMBB1001063	6700
	HEMBB1001068	F-HEMBB1001068	1192	R-HEMBB1001068	6701
	HEMBB1001096	F-HEMBB1001096	1193	R-HEMBB1001096	6702
	HEMBB1001102	F-HEMBB1001102	1194	R-HEMBB1001102	6703
30	HEMBB1001105	F-HEMBB1001105	1195	R-HEMBB1001105	6704
	HEMBB1001112	F-HEMBB1001112	1196		
	HEMBB1001114	F-HEMBB1001114	1197	R-HEMBB1001114	6705
	HEMBB1001117	F-HEMBB1001117	1198	R-HEMBB1001117	6706
	HEMBB1001119	F-HEMBB1001119	1199	R-HEMBB1001119	6707
35	HEMBB1001126	F-HEMBB1001126	1200	R-HEMBB1001126	6708
	HEMBB1001133	F-HEMBB1001133	1201	R-HEMBB1001133	6709
	HEMBB1001137	F-HEMBB1001137	1202	R-HEMBB1001137	6710
	HEMBB1001142	F-HEMBB1001142	1203	R-HEMBB1001142	6711
	HEMBB1001151	F-HEMBB1001151	1204	R-HEMBB1001151	6712
40	HEMBB1001153	F-HEMBB1001153	1205	R-HEMBB1001153	6713
	HEMBB1001169	F-HEMBB1001169	1206	R-HEMBB1001169	6714
	HEMBB1001175	F-HEMBB1001175	1207	R-nnnnnnnnnnnnn	6715
	HEMBB1001177	F-HEMBB1001177	1208	R-HEMBB1001177	6716
	HEMBB1001182	F-HEMBB1001182	1209	R-HEMBB1001182	6717
45	HEMBB1001199	F-HEMBB1001199	1210	R-HEMBB1001199	6718
	HEMBB1001208	F-HEMBB1001208	1211	R-HEMBB1001208	6719

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	HEMBB1001209	F-HEMBB1001209	1212	R-HEMBB1001209	6720
	HEMBB1001210	F-HEMBB1001210	1213	R-HEMBB1001210	6721
	HEMBB1001218	F-HEMBB1001218	1214	R-HEMBB1001218	6722
	HEMBB1001221	F-HEMBB1001221	1215	R-HEMBB1001221	6723
5	HEMBB1001234	F-HEMBB1001234	1216	R-HEMBB1001234	6724
	HEMBB1001242	F-HEMBB1001242	1217	R-HEMBB1001242	6725
	HEMBB1001249	F-HEMBB1001249	1218	R-HEMBB1001249	6726
	HEMBB1001253	F-HEMBB1001253	1219	R-HEMBB1001253	6727
	HEMBB1001254	F-HEMBB1001254	1220	R-HEMBB1001254	6728
10	HEMBB1001267	F-HEMBB1001267	1221	R-HEMBB1001267	6729
	HEMBB1001271	F-HEMBB1001271	1222	R-HEMBB1001271	6730
	HEMBB1001282	F-HEMBB1001282	1223	R-HEMBB1001282	6731
	HEMBB1001288	F-HEMBB1001288	1224	R-HEMBB1001288	6732
	HEMBB1001289	F-HEMBB1001289	1225	R-HEMBB1001289	6733
15	HEMBB1001294	F-HEMBB1001294	1226	R-HEMBB1001294	6734
	HEMBB1001302	F-HEMBB1001302	1227	R-HEMBB1001302	6735
	HEMBB1001304	F-HEMBB1001304	1228	R-HEMBB1001304	6736
	HEMBB1001314	F-HEMBB1001314	1229	R-HEMBB1001314	6737
	HEMBB1001315	F-HEMBB1001315	1230	R-HEMBB1001315	6738
20	HEMBB1001317	F-HEMBB1001317	1231	R-HEMBB1001317	6739
	HEMBB1001326	F-HEMBB1001326	1232	R-HEMBB1001326	6740
	HEMBB1001331	F-HEMBB1001331	1233	R-HEMBB1001331	6741
	HEMBB1001335	F-HEMBB1001335	1234	R-HEMBB1001335	6742
	HEMBB1001337	F-HEMBB1001337	1235	R-HEMBB1001337	6743
25	HEMBB1001339	F-HEMBB1001339	1236	R-HEMBB1001339	6744
	HEMBB1001346	F-HEMBB1001346	1237	R-HEMBB1001346	6745
	HEMBB1001348	F-HEMBB1001348	1238	R-HEMBB1001348	6746
	HEMBB1001356	F-HEMBB1001356	1239	R-HEMBB1001356	6747
	HEMBB1001364	F-HEMBB1001364	1240	R-HEMBB1001364	6748
30	HEMBB1001366	F-HEMBB1001366	1241	R-HEMBB1001366	6749
	HEMBB1001367	F-HEMBB1001367	1242	R-HEMBB1001367	6750
	HEMBB1001369	F-HEMBB1001369	1243	R-HEMBB1001369	6751
	HEMBB1001380	F-HEMBB1001380	1244	R-HEMBB1001380	6752
	HEMBB1001384	F-HEMBB1001384	1245	R-HEMBB1001384	6753
35	HEMBB1001387	F-HEMBB1001387	1246	R-HEMBB1001387	6754
	HEMBB1001394	F-HEMBB1001394	1247	R-HEMBB1001394	6755
	HEMBB1001410	F-HEMBB1001410	1248	R-HEMBB1001410	6756
	HEMBB1001424	F-HEMBB1001424	1249	R-HEMBB1001424	6757
	HEMBB1001426	F-HEMBB1001426	1250	R-HEMBB1001426	6758
40	HEMBB1001429	F-HEMBB1001429	1251	R-HEMBB1001429	6759
	HEMBB1001436	F-HEMBB1001436	1252	R-HEMBB1001436	6760
	HEMBB1001443	F-HEMBB1001443	1253	R-HEMBB1001443	6761
	HEMBB1001449	F-HEMBB1001449	1254	R-HEMBB1001449	6762
	HEMBB1001454	F-HEMBB1001454	1255	R-HEMBB1001454	6763
45	HEMBB1001458	F-HEMBB1001458	1256	R-HEMBB1001458	6764
	HEMBB1001463	F-HEMBB1001463	1257	R-HEMBB1001463	6765

	HEMBB1001464	F-HEMBB1001464	1258	R-HEMBB1001464	6766
	HEMBB1001482	F-HEMBB1001482	1259	R-HEMBB1001482	6767
	HEMBB1001500	F-HEMBB1001500	1260	R-HEMBB1001500	6768
	HEMBB1001521	F-HEMBB1001521	1261	R-HEMBB1001521	6769
5	HEMBB1001527	F-HEMBB1001527	1262	R-HEMBB1001527	6770
	HEMBB1001531	F-HEMBB1001531	1263	R-HEMBB1001531	6771
	HEMBB1001535	F-HEMBB1001535	1264	R-HEMBB1001535	6772
	HEMBB1001536	F-HEMBB1001536	1265	R-HEMBB1001536	6773
	HEMBB1001537	F-HEMBB1001537	1266	R-HEMBB1001537	6774
10	HEMBB1001555	F-HEMBB1001555	1267	R-HEMBB1001555	6775
	HEMBB1001562	F-HEMBB1001562	1268	R-HEMBB1001562	6776
	HEMBB1001564	F-HEMBB1001564	1269	R-HEMBB1001564	6777
	HEMBB1001565	F-HEMBB1001565	1270	R-HEMBB1001565	6778
	HEMBB1001585	F-HEMBB1001585	1271	R-HEMBB1001585	6779
15	HEMBB1001586	F-HEMBB1001586	1272	R-HEMBB1001586	6780
	HEMBB1001588	F-HEMBB1001588	1273	R-HEMBB1001588	6781
	HEMBB1001603	F-HEMBB1001603	1274	R-HEMBB1001603	6782
	HEMBB1001618	F-HEMBB1001618	1275	R-HEMBB1001618	6783
	HEMBB1001619	F-HEMBB1001619	1276	R-HEMBB1001619	6784
20	HEMBB1001630	F-HEMBB1001630	1277	R-HEMBB1001630	6785
	HEMBB1001635	F-HEMBB1001635	1278	R-HEMBB1001635	6786
	HEMBB1001637	F-HEMBB1001637	1279	R-HEMBB1001637	6787
	HEMBB1001641	F-HEMBB1001641	1280	R-HEMBB1001641	6788
	HEMBB1001653	F-HEMBB1001653	1281	R-HEMBB1001653	6789
25	HEMBB1001665	F-HEMBB1001665	1282	R-HEMBB1001665	6790
	HEMBB1001668	F-HEMBB1001668	1283	R-HEMBB1001668	6791
	HEMBB1001673	F-HEMBB1001673	1284	R-HEMBB1001673	6792
	HEMBB1001684	F-HEMBB1001684	1285	R-HEMBB1001684	6793
	HEMBB1001685	F-HEMBB1001685	1286	R-HEMBB1001685	6794
30	HEMBB1001695	F-HEMBB1001695	1287	R-HEMBB1001695	6795
	HEMBB1001704	F-HEMBB1001704	1288	R-HEMBB1001704	6796
	HEMBB1001706	F-HEMBB1001706	1289	R-HEMBB1001706	6797
	HEMBB1001707	F-HEMBB1001707	1290	R-HEMBB1001707	6798
	HEMBB1001717	F-HEMBB1001717	1291	R-HEMBB1001717	6799
35	HEMBB1001735	F-HEMBB1001735	1292	R-HEMBB1001735	6800
	HEMBB1001736	F-HEMBB1001736	1293	R-HEMBB1001736	6801
	HEMBB1001747	F-HEMBB1001747	1294	R-HEMBB1001747	6802
	HEMBB1001749	F-HEMBB1001749	1295	R-HEMBB1001749	6803
	HEMBB1001753	F-HEMBB1001753	1296	R-HEMBB1001753	6804
40	HEMBB1001756	F-HEMBB1001756	1297	R-HEMBB1001756	6805
	HEMBB1001760	F-HEMBB1001760	1298	R-HEMBB1001760	6806
	HEMBB1001762	F-HEMBB1001762	1299	R-HEMBB1001762	6807
	HEMBB1001785	F-HEMBB1001785	1300	R-HEMBB1001785	6808
	HEMBB1001797	F-HEMBB1001797	1301	R-HEMBB1001797	6809
45	HEMBB1001802	F-HEMBB1001802	1302	R-HEMBB1001802	6810
	HEMBB1001812	F-HEMBB1001812	1303	R-HEMBB1001812	6811

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	HEMBB1001816	F-HEMBB1001816	1304	R-HEMBB1001816	6812
	HEMBB1001831	F-HEMBB1001831	1305	R-HEMBB1001831	6813
	HEMBB1001834	F-HEMBB1001834	1306		
	HEMBB1001836	F-HEMBB1001836	1307	R-HEMBB1001836	6814
5	HEMBB1001839	F-HEMBB1001839	1308	R-HEMBB1001839	6815
	HEMBB1001850	F-HEMBB1001850	1309	R-HEMBB1001850	6816
	HEMBB1001863	F-HEMBB1001863	1310	R-HEMBB1001863	6817
	HEMBB1001867	F-HEMBB1001867	1311	R-HEMBB1001867	6818
	HEMBB1001868	F-HEMBB1001868	1312	R-HEMBB1001868	6819
10	HEMBB1001869	F-HEMBB1001869	1313	R-HEMBB1001869	6820
	HEMBB1001872	F-HEMBB1001872	1314	R-HEMBB1001872	6821
	HEMBB1001874	F-HEMBB1001874	1315	R-HEMBB1001874	6822
	HEMBB1001875	F-HEMBB1001875	1316	R-HEMBB1001875	6823
	HEMBB1001880	F-HEMBB1001880	1317	R-HEMBB1001880	6824
15	HEMBB1001899	F-HEMBB1001899	1318	R-HEMBB1001899	6825
	HEMBB1001905	F-HEMBB1001905	1319	R-HEMBB1001905	6826
	HEMBB1001906	F-HEMBB1001906	1320	R-HEMBB1001906	6827
	HEMBB1001908	F-HEMBB1001908	1321	R-HEMBB1001908	6828
	HEMBB1001910	F-HEMBB1001910	1322	R-HEMBB1001910	6829
20	HEMBB1001911	F-HEMBB1001911	1323	R-HEMBB1001911	6830
	HEMBB1001915	F-HEMBB1001915	1324	R-HEMBB1001915	6831
	HEMBB1001921	F-HEMBB1001921	1325	R-HEMBB1001921	6832
	HEMBB1001922	F-HEMBB1001922	1326	R-HEMBB1001922	6833
	HEMBB1001925	F-HEMBB1001925	1327	R-HEMBB1001925	6834
25	HEMBB1001930	F-HEMBB1001930	1328	R-HEMBB1001930	6835
	HEMBB1001944	F-HEMBB1001944	1329	R-HEMBB1001944	6836
	HEMBB1001945	F-HEMBB1001945	1330	R-HEMBB1001945	6837
	HEMBB1001947	F-HEMBB1001947	1331	R-HEMBB1001947	6838
	HEMBB1001950	F-HEMBB1001950	1332	R-HEMBB1001950	6839
30	HEMBB1001952	F-HEMBB1001952	1333	R-HEMBB1001952	6840
	HEMBB1001953	F-HEMBB1001953	1334	R-HEMBB1001953	6841
	HEMBB1001957	F-HEMBB1001957	1335	R-HEMBB1001957	6842
	HEMBB1001962	F-HEMBB1001962	1336	R-HEMBB1001962	6843
	HEMBB1001967	F-HEMBB1001967	1337	R-HEMBB1001967	6844
35	HEMBB1001973	F-HEMBB1001973	1338	R-HEMBB1001973	6845
	HEMBB1001983	F-HEMBB1001983	1339	R-HEMBB1001983	6846
	HEMBB1001988	F-HEMBB1001988	1340	R-HEMBB1001988	6847
	HEMBB1001990	F-HEMBB1001990	1341	R-HEMBB1001990	6848
	HEMBB1001996	F-HEMBB1001996	1342	R-HEMBB1001996	6849
40	HEMBB1001997	F-HEMBB1001997	1343	R-HEMBB1001997	6850
	HEMBB1002002	F-HEMBB1002002	1344	R-HEMBB1002002	6851
	HEMBB1002005	F-HEMBB1002005	1345	R-HEMBB1002005	6852
	HEMBB1002009	F-HEMBB1002009	1346	R-HEMBB1002009	6853
	HEMBB1002015	F-HEMBB1002015	1347	R-HEMBB1002015	6854
45	HEMBB1002042	F-HEMBB1002042	1348	R-HEMBB1002042	6855
	HEMBB1002043	F-HEMBB1002043	1349	R-HEMBB1002043	6856

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	HEMBB1002044	F-HEMBB1002044	1350	R-HEMBB1002044	6857
	HEMBB1002045	F-HEMBB1002045	1351	R-HEMBB1002045	6858
	HEMBB1002049	F-HEMBB1002049	1352	R-HEMBB1002049	6859
	HEMBB1002050	F-HEMBB1002050	1353	R-HEMBB1002050	6860
5	HEMBB1002068	F-HEMBB1002068	1354	R-HEMBB1002068	6861
	HEMBB1002069	F-HEMBB1002069	1355	R-HEMBB1002069	6862
	HEMBB1002092	F-HEMBB1002092	1356	R-HEMBB1002092	6863
	HEMBB1002094	F-HEMBB1002094	1357	R-HEMBB1002094	6864
	HEMBB1002115	F-HEMBB1002115	1358	R-HEMBB1002115	6865
10	HEMBB1002134	F-HEMBB1002134	1359		
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	HEMBB1002142	F-HEMBB1002142	1361	R-HEMBB1002142	6867
	HEMBB1002152	F-HEMBB1002152	1362	R-HEMBB1002152	6868
	HEMBB1002189	F-HEMBB1002189	1363	R-HEMBB1002189	6869
15	HEMBB1002190	F-HEMBB1002190	1364	R-HEMBB1002190	6870
	HEMBB1002193	F-HEMBB1002193	1365	R-HEMBB1002193	6871
	HEMBB1002217	F-HEMBB1002217	1366	R-HEMBB1002217	6872
	HEMBB1002218	F-HEMBB1002218	1367	R-HEMBB1002218	6873
	HEMBB1002232	F-HEMBB1002232	1368	R-HEMBB1002232	6874
20	HEMBB1002247	F-HEMBB1002247	1369	R-HEMBB1002247	6875
	HEMBB1002249	F-HEMBB1002249	1370	R-HEMBB1002249	6876
	HEMBB1002254	F-HEMBB1002254	1371	R-HEMBB1002254	6877
	HEMBB1002255	F-HEMBB1002255	1372	R-HEMBB1002255	6878
	HEMBB1002266	F-HEMBB1002266	1373	R-HEMBB1002266	6879
25	HEMBB1002280	F-HEMBB1002280	1374	R-HEMBB1002280	6880
	HEMBB1002300	F-HEMBB1002300	1375	R-HEMBB1002300	6881
	HEMBB1002306	F-HEMBB1002306	1376	R-HEMBB1002306	6882
	HEMBB1002327	F-HEMBB1002327	1377	R-HEMBB1002327	6883
	HEMBB1002329	F-HEMBB1002329	1378	R-HEMBB1002329	6884
30	HEMBB1002340	F-HEMBB1002340	1379	R-HEMBB1002340	6885
	HEMBB1002342	F-HEMBB1002342	1380	R-HEMBB1002342	6886
	HEMBB1002358	F-HEMBB1002358	1381	R-HEMBB1002358	6887
	HEMBB1002359	F-HEMBB1002359	1382	R-HEMBB1002359	6888
	HEMBB1002364	F-HEMBB1002364	1383	R-HEMBB1002364	6889
35	HEMBB1002371	F-HEMBB1002371	1384	R-HEMBB1002371	6890
	HEMBB1002381	F-HEMBB1002381	1385	R-HEMBB1002381	6891
	HEMBB1002383	F-HEMBB1002383	1386	R-HEMBB1002383	6892
	HEMBB1002387	F-HEMBB1002387	1387	R-HEMBB1002387	6893
	HEMBB1002409	F-HEMBB1002409	1388		
40	HEMBB1002415	F-HEMBB1002415	1389	R-HEMBB1002415	6894
	HEMBB1002425	F-HEMBB1002425	1390	R-HEMBB1002425	6895
	HEMBB1002442	F-HEMBB1002442	1391	R-HEMBB1002442	6896
	HEMBB1002453	F-HEMBB1002453	1392	R-HEMBB1002453	6897
	HEMBB1002457	F-HEMBB1002457	1393	R-HEMBB1002457	6898
45	HEMBB1002458	F-HEMBB1002458	1394	R-HEMBB1002458	6899
	HEMBB1002477	F-HEMBB1002477	1395	R-HEMBB1002477	6900

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	HEMBB1002492	F-HEMBB1002492	1397	R-HEMBB1002492	6902
	HEMBB1002495	F-HEMBB1002495	1398	R-HEMBB1002495	6903
	HEMBB1002502	F-HEMBB1002502	1399	R-HEMBB1002502	6904
5	HEMBB1002509	F-HEMBB1002509	1400	R-HEMBB1002509	6905
	HEMBB1002510	F-HEMBB1002510	1401	R-HEMBB1002510	6906
	HEMBB1002520	F-HEMBB1002520	1402	R-HEMBB1002520	6907
	HEMBB1002522	F-HEMBB1002522	1403	R-HEMBB1002522	6908
	HEMBB1002531	F-HEMBB1002531	1404	R-HEMBB1002531	6909
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	HEMBB1002550	F-HEMBB1002550	1407	R-HEMBB1002550	6912
	HEMBB1002556	F-HEMBB1002556	1408	R-HEMBB1002556	6913
	HEMBB1002579	F-HEMBB1002579	1409	R-HEMBB1002579	6914
15	HEMBB1002582	F-HEMBB1002582	1410	R-HEMBB1002582	6915
	HEMBB1002590	F-HEMBB1002590	1411	R-HEMBB1002590	6916
	HEMBB1002596	F-HEMBB1002596	1412	R-HEMBB1002596	6917
	HEMBB1002600	F-HEMBB1002600	1413	R-HEMBB1002600	6918
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	HEMBB1002610	F-HEMBB1002610	1417	R-HEMBB1002610	6922
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25	HEMBB1002617	F-HEMBB1002617	1420	R-HEMBB1002617	6925
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	HEMBB1002635	F-HEMBB1002635	1422	R-HEMBB1002635	6927
	HEMBB1002664	F-HEMBB1002664	1423	R-HEMBB1002664	6928
	HEMBB1002677	F-HEMBB1002677	1424	R-HEMBB1002677	6929
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	HEMBB1002697	F-HEMBB1002697	1429	R-HEMBB1002697	6934
35	HEMBB1002699	F-HEMBB1002699	1430	R-HEMBB1002699	6935
	HEMBB1002702	F-HEMBB1002702	1431	R-HEMBB1002702	6936
	HEMBB1002705	F-HEMBB1002705	1432	R-HEMBB1002705	6937
	HEMBB1002712	F-HEMBB1002712	1433	R-HEMBB1002712	6938
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40	MAMMA1000019	F-MAMMA1000019	1435	R-MAMMA1000019	6940
	MAMMA1000020	F-MAMMA1000020	1436	R-MAMMA1000020	6941
	MAMMA1000025	F-MAMMA1000025	1437	R-MAMMA1000025	6942
	MAMMA1000043	F-MAMMA1000043	1438	R-MAMMA1000043	6943
	MAMMA1000045	F-MAMMA1000045	1439	R-MAMMA1000045	6944
45	MAMMA1000055	F-MAMMA1000055	1440	R-MAMMA1000055	6945
	MAMMA1000057	F-MAMMA1000057	1441	R-MAMMA1000057	6946

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	MAMMA1000069	F-MAMMA1000069	1442	R-MAMMA1000069	6947
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	MAMMA1000085	F-MAMMA1000085	1444	R-MAMMA1000085	6949
	MAMMA1000092	F-MAMMA1000092	1445	R-MAMMA1000092	6950
5	MAMMA1000103	F-MAMMA1000103	1446	R-MAMMA1000103	6951
	MAMMA1000117	F-MAMMA1000117	1447	R-MAMMA1000117	6952
	MAMMA1000129	F-MAMMA1000129	1448	R-MAMMA1000129	6953
	MAMMA1000133	F-MAMMA1000133	1449	R-MAMMA1000133	6954
	MAMMA1000134	F-MAMMA1000134	1450	R-MAMMA1000134	6955
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	MAMMA1000143	F-MAMMA1000143	1452	R-MAMMA1000143	6957
	MAMMA1000155	F-MAMMA1000155	1453	R-MAMMA1000155	6958
	MAMMA1000163	F-MAMMA1000163	1454	R-MAMMA1000163	6959
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	MAMMA1000183	F-MAMMA1000183	1458	R-MAMMA1000183	6963
	MAMMA1000198	F-MAMMA1000198	1459	R-MAMMA1000198	6964
	MAMMA1000221	F-MAMMA1000221	1460	R-MAMMA1000221	6965
20	MAMMA1000227	F-MAMMA1000227	1461	R-MAMMA1000227	6966
	MAMMA1000241	F-MAMMA1000241	1462	R-MAMMA1000241	6967
	MAMMA1000251	F-MAMMA1000251	1463	R-MAMMA1000251	6968
	MAMMA1000254	F-MAMMA1000254	1464	R-MAMMA1000254	6969
	MAMMA1000257	F-MAMMA1000257	1465	R-MAMMA1000257	6970
25	MAMMA1000264	F-MAMMA1000264	1466	R-MAMMA1000264	6971
	MAMMA1000266	F-MAMMA1000266	1467	R-MAMMA1000266	6972
	MAMMA1000270	F-MAMMA1000270	1468	R-MAMMA1000270	6973
	MAMMA1000277	F-MAMMA1000277	1469	R-MAMMA1000277	6974
	MAMMA1000278	F-MAMMA1000278	1470	R-MAMMA1000278	6975
30	MAMMA1000279	F-MAMMA1000279	1471	R-MAMMA1000279	6976
	MAMMA1000284	F-MAMMA1000284	1472	R-MAMMA1000284	6977
	MAMMA1000287	F-MAMMA1000287	1473	R-MAMMA1000287	6978
	MAMMA1000302	F-MAMMA1000302	1474	R-MAMMA1000302	6979
	MAMMA1000307	F-MAMMA1000307	1475	R-MAMMA1000307	6980
35	MAMMA1000309	F-MAMMA1000309	1476	R-MAMMA1000309	6981
	MAMMA1000312	F-MAMMA1000312	1477	R-MAMMA1000312	6982
	MAMMA1000313	F-MAMMA1000313	1478	R-MAMMA1000313	6983
	MAMMA1000331	F-MAMMA1000331	1479	R-MAMMA1000331	6984
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40	MAMMA1000340	F-MAMMA1000340	1481	R-MAMMA1000340	6986
	MAMMA1000348	F-MAMMA1000348	1482	R-MAMMA1000348	6987
	MAMMA1000356	F-MAMMA1000356	1483	R-MAMMA1000356	6988
	MAMMA1000360	F-MAMMA1000360	1484	R-MAMMA1000360	6989
	MAMMA1000361	F-MAMMA1000361	1485	R-MAMMA1000361	6990
45	MAMMA1000372	F-MAMMA1000372	1486	R-MAMMA1000372	6991
	MAMMA1000385	F-MAMMA1000385	1487	R-MAMMA1000385	6992

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5	MAMMA1000388	F-MAMMA1000388	1488	R-MAMMA1000388	6993
	MAMMA1000395	F-MAMMA1000395	1489	R-MAMMA1000395	6994
	MAMMA1000402	F-MAMMA1000402	1490	R-MAMMA1000402	6995
	MAMMA1000410	F-MAMMA1000410	1491	R-MAMMA1000410	6996
	MAMMA1000413	F-MAMMA1000413	1492	R-MAMMA1000413	6997
	MAMMA1000414	F-MAMMA1000414	1493	R-MAMMA1000414	6998
	MAMMA1000416	F-MAMMA1000416	1494	R-MAMMA1000416	6999
10	MAMMA1000421	F-MAMMA1000421	1495	R-MAMMA1000421	7000
	MAMMA1000422	F-MAMMA1000422	1496	R-MAMMA1000422	7001
	MAMMA1000423	F-MAMMA1000423	1497	R-MAMMA1000423	7002
	MAMMA1000424	F-MAMMA1000424	1498	R-MAMMA1000424	7003
	MAMMA1000429	F-MAMMA1000429	1499	R-MAMMA1000429	7004
	MAMMA1000431	F-MAMMA1000431	1500	R-MAMMA1000431	7005
	MAMMA1000444	F-MAMMA1000444	1501	R-MAMMA1000444	7006
15	MAMMA1000446	F-MAMMA1000446	1502	R-MAMMA1000446	7007
	MAMMA1000458	F-MAMMA1000458	1503	R-MAMMA1000458	7008
	MAMMA1000468	F-MAMMA1000468	1504	R-MAMMA1000468	7009
	MAMMA1000472	F-MAMMA1000472	1505	R-MAMMA1000472	7010
	MAMMA1000478	F-MAMMA1000478	1506	R-MAMMA1000478	7011
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	MAMMA1000501	F-MAMMA1000501	1510	R-MAMMA1000501	7015
	MAMMA1000516	F-MAMMA1000516	1511	R-MAMMA1000516	7016
	MAMMA1000522	F-MAMMA1000522	1512	R-MAMMA1000522	7017
	MAMMA1000524	F-MAMMA1000524	1513		
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25	MAMMA1000567	F-MAMMA1000567	1516	R-MAMMA1000567	7020
	MAMMA1000576	F-MAMMA1000576	1517	R-MAMMA1000576	7021
	MAMMA1000583	F-MAMMA1000583	1518	R-MAMMA1000583	7022
	MAMMA1000585	F-MAMMA1000585	1519	R-MAMMA1000585	7023
	MAMMA1000594	F-MAMMA1000594	1520	R-MAMMA1000594	7024
	MAMMA1000597	F-MAMMA1000597	1521	R-MAMMA1000597	7025
	MAMMA1000605	F-MAMMA1000605	1522	R-MAMMA1000605	7026
30	MAMMA1000612	F-MAMMA1000612	1523	R-MAMMA1000612	7027
	MAMMA1000616	F-MAMMA1000616	1524	R-MAMMA1000616	7028
	MAMMA1000621	F-MAMMA1000621	1525	R-MAMMA1000621	7029
	MAMMA1000623	F-MAMMA1000623	1526	R-MAMMA1000623	7030
	MAMMA1000625	F-MAMMA1000625	1527	R-MAMMA1000625	7031
	MAMMA1000643	F-MAMMA1000643	1528	R-MAMMA1000643	7032
	MAMMA1000664	F-MAMMA1000664	1529	R-MAMMA1000664	7033
35	MAMMA1000669	F-MAMMA1000669	1530	R-MAMMA1000669	7034
	MAMMA1000670	F-MAMMA1000670	1531	R-MAMMA1000670	7035
	MAMMA1000672	F-MAMMA1000672	1532	R-MAMMA1000672	7036
	MAMMA1000684	F-MAMMA1000684	1533	R-MAMMA1000684	7037

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	MAMMA1000707	F-MAMMA1000707	1535	R-MAMMA1000707	7039
	MAMMA1000713	F-MAMMA1000713	1536	R-MAMMA1000713	7040
	MAMMA1000714	F-MAMMA1000714	1537	R-MAMMA1000714	7041
5	MAMMA1000718	F-MAMMA1000718	1538	R-MAMMA1000718	7042
	MAMMA1000720	F-MAMMA1000720	1539	R-MAMMA1000720	7043
	MAMMA1000723	F-MAMMA1000723	1540	R-MAMMA1000723	7044
	MAMMA1000731	F-MAMMA1000731	1541	R-MAMMA1000731	7045
	MAMMA1000732	F-MAMMA1000732	1542	R-MAMMA1000732	7046
10	MAMMA1000733	F-MAMMA1000733	1543	R-MAMMA1000733	7047
	MAMMA1000734	F-MAMMA1000734	1544	R-MAMMA1000734	7048
	MAMMA1000738	F-MAMMA1000738	1545	R-MAMMA1000738	7049
	MAMMA1000744	F-MAMMA1000744	1546	R-MAMMA1000744	7050
	MAMMA1000746	F-MAMMA1000746	1547	R-MAMMA1000746	7051
15	MAMMA1000752	F-MAMMA1000752	1548	R-MAMMA1000752	7052
	MAMMA1000760	F-MAMMA1000760	1549	R-MAMMA1000760	7053
	MAMMA1000761	F-MAMMA1000761	1550	R-MAMMA1000761	7054
	MAMMA1000775	F-MAMMA1000775	1551	R-MAMMA1000775	7055
	MAMMA1000776	F-MAMMA1000776	1552	R-MAMMA1000776	7056
20	MAMMA1000778	F-MAMMA1000778	1553	R-MAMMA1000778	7057
	MAMMA1000782	F-MAMMA1000782	1554	R-MAMMA1000782	7058
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	MAMMA1000802	F-MAMMA1000802	1556	R-MAMMA1000802	7060
	MAMMA1000824	F-MAMMA1000824	1557		
25	MAMMA1000831	F-MAMMA1000831	1558	R-MAMMA1000831	7061
	MAMMA1000839	F-MAMMA1000839	1559	R-MAMMA1000839	7062
	MAMMA1000841	F-MAMMA1000841	1560	R-MAMMA1000841	7063
	MAMMA1000842	F-MAMMA1000842	1561	R-MAMMA1000842	7064
	MAMMA1000843	F-MAMMA1000843	1562	R-MAMMA1000843	7065
30	MAMMA1000845	F-MAMMA1000845	1563	R-MAMMA1000845	7066
	MAMMA1000851	F-MAMMA1000851	1564	R-MAMMA1000851	7067
	MAMMA1000855	F-MAMMA1000855	1565	R-MAMMA1000855	7068
	MAMMA1000856	F-MAMMA1000856	1566	R-MAMMA1000856	7069
	MAMMA1000859	F-MAMMA1000859	1567		
35	MAMMA1000862	F-MAMMA1000862	1568	R-MAMMA1000862	7070
	MAMMA1000863	F-MAMMA1000863	1569	R-MAMMA1000863	7071
	MAMMA1000865	F-MAMMA1000865	1570	R-MAMMA1000865	7072
	MAMMA1000867	F-MAMMA1000867	1571	R-MAMMA1000867	7073
	MAMMA1000875	F-MAMMA1000875	1572	R-MAMMA1000875	7074
40	MAMMA1000876	F-MAMMA1000876	1573	R-MAMMA1000876	7075
	MAMMA1000877	F-MAMMA1000877	1574	R-MAMMA1000877	7076
	MAMMA1000880	F-MAMMA1000880	1575	R-MAMMA1000880	7077
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	MAMMA1000897	F-MAMMA1000897	1577	R-MAMMA1000897	7079
45	MAMMA1000905	F-MAMMA1000905	1578	R-MAMMA1000905	7080
	MAMMA1000906	F-MAMMA1000906	1579	R-MAMMA1000906	7081

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	MAMMA1000914	F-MAMMA1000914	1581	R-MAMMA1000914	7083
	MAMMA1000921	F-MAMMA1000921	1582	R-MAMMA1000921	7084
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	MAMMA1000998	F-MAMMA1000998	1595	R-MAMMA1000998	7097
	MAMMA1001003	F-MAMMA1001003	1596	R-MAMMA1001003	7098
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	MAMMA1001220	F-MAMMA1001220	1633	R-MAMMA1001220	7134
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	MAMMA1001604	F-MAMMA1001604	1679	R-MAMMA1001604	7180
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	MAMMA1001633	F-MAMMA1001633	1684	R-MAMMA1001633	7185
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	MAMMA1001670	F-MAMMA1001670	1689	R-MAMMA1001670	7189
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	MAMMA1001768	F-MAMMA1001768	1708	R-MAMMA1001768	7208
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40	MAMMA1001783	F-MAMMA1001783	1711	R-MAMMA1001783	7211
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	MAMMA1001788	F-MAMMA1001788	1713	R-MAMMA1001788	7213
	MAMMA1001790	F-MAMMA1001790	1714	R-MAMMA1001790	7214
	MAMMA1001806	F-MAMMA1001806	1715	R-MAMMA1001806	7215
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	MAMMA1001820	F-MAMMA1001820	1720	R-MAMMA1001820	7220
	MAMMA1001824	F-MAMMA1001824	1721	R-MAMMA1001824	7221
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	MAMMA1001837	F-MAMMA1001837	1723	R-MAMMA1001837	7223
	MAMMA1001848	F-MAMMA1001848	1724	R-MAMMA1001848	7224
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	MAMMA1001907	F-MAMMA1001907	1734	R-MAMMA1001907	7234
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	MAMMA1001963	F-MAMMA1001963	1738	R-MAMMA1001963	7238
	MAMMA1001969	F-MAMMA1001969	1739	R-MAMMA1001969	7239
	MAMMA1001970	F-MAMMA1001970	1740	R-MAMMA1001970	7240
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	MAMMA1002033	F-MAMMA1002033	1745	R-MAMMA1002033	7245
	MAMMA1002041	F-MAMMA1002041	1746	R-MAMMA1002041	7246
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	MAMMA1002056	F-MAMMA1002056	1749	R-MAMMA1002056	7249
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35	MAMMA1002078	F-MAMMA1002078	1752	R-MAMMA1002078	7252
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	MAMMA1002093	F-MAMMA1002093	1755	R-MAMMA1002093	7255
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	MAMMA1002317	F-MAMMA1002317	1791	R-MAMMA1002317	7291
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	MAMMA1002434	F-MAMMA1002434	1817	R-MAMMA1002434	7317
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	MAMMA1002454	F-MAMMA1002454	1819	R-MAMMA1002454	7319
	MAMMA1002461	F-MAMMA1002461	1820	R-MAMMA1002461	7320
	MAMMA1002470	F-MAMMA1002470	1821	R-MAMMA1002470	7321
	MAMMA1002475	F-MAMMA1002475	1822	R-MAMMA1002475	7322
	MAMMA1002480	F-MAMMA1002480	1823	R-MAMMA1002480	7323
	MAMMA1002485	F-MAMMA1002485	1824	R-MAMMA1002485	7324
	MAMMA1002494	F-MAMMA1002494	1825	R-MAMMA1002494	7325
15	MAMMA1002498	F-MAMMA1002498	1826	R-MAMMA1002498	7326
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	MAMMA1002530	F-MAMMA1002530	1828	R-MAMMA1002530	7328
	MAMMA1002545	F-MAMMA1002545	1829	R-MAMMA1002545	7329
	MAMMA1002554	F-MAMMA1002554	1830	R-MAMMA1002554	7330
	MAMMA1002556	F-MAMMA1002556	1831	R-MAMMA1002556	7331
	MAMMA1002566	F-MAMMA1002566	1832	R-MAMMA1002566	7332
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	MAMMA1002590	F-MAMMA1002590	1836	R-MAMMA1002590	7336
	MAMMA1002597	F-MAMMA1002597	1837	R-MAMMA1002597	7337
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	MAMMA1002629	F-MAMMA1002629	1847	R-MAMMA1002629	7347
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	MAMMA1002764	F-MAMMA1002764	1872	R-MAMMA1002764	7372
	MAMMA1002765	F-MAMMA1002765	1873	R-MAMMA1002765	7373
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25	MAMMA1002820	F-MAMMA1002820	1880	R-MAMMA1002820	7379
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	MAMMA1002833	F-MAMMA1002833	1882	R-MAMMA1002833	7381
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30	MAMMA1002842	F-MAMMA1002842	1885	R-MAMMA1002842	7384
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35	MAMMA1002869	F-MAMMA1002869	1890		
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	MAMMA1002880	F-MAMMA1002880	1892	R-MAMMA1002880	7390
	MAMMA1002881	F-MAMMA1002881	1893	R-MAMMA1002881	7391
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	MAMMA1002892	F-MAMMA1002892	1897	R-MAMMA1002892	7395
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45	MAMMA1002909	F-MAMMA1002909	1900	R-MAMMA1002909	7398
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	MAMMA1003004	F-MAMMA1003004	1913	R-MAMMA1003004	7410
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	MAMMA1003019	F-MAMMA1003019	1918	R-MAMMA1003019	7414
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	MAMMA1003031	F-MAMMA1003031	1920	R-MAMMA1003031	7416
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	MAMMA1003039	F-MAMMA1003039	1922	R-MAMMA1003039	7418
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	MAMMA1003047	F-MAMMA1003047	1925	R-MAMMA1003047	7421
25	MAMMA1003049	F-MAMMA1003049	1926	R-MAMMA1003049	7422
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	MAMMA1003056	F-MAMMA1003056	1928	R-MAMMA1003056	7424
	MAMMA1003057	F-MAMMA1003057	1929	R-MAMMA1003057	7425
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30	MAMMA1003089	F-MAMMA1003089	1931	R-MAMMA1003089	7427
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	MAMMA1003104	F-MAMMA1003104	1933	R-MAMMA1003104	7429
	MAMMA1003113	F-MAMMA1003113	1934	R-MAMMA1003113	7430
	MAMMA1003127	F-MAMMA1003127	1935	R-MAMMA1003127	7431
35	MAMMA1003135	F-MAMMA1003135	1936	R-MAMMA1003135	7432
	MAMMA1003140	F-MAMMA1003140	1937	R-MAMMA1003140	7433
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	MAMMA1003150	F-MAMMA1003150	1939	R-nnnnnnnnnnnnn	7435
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	NT2RM1000032	F-NT2RM1000032	1943		
	NT2RM1000035	F-NT2RM1000035	1944		
	NT2RM1000037	F-NT2RM1000037	1945		
45	NT2RM1000039	F-NT2RM1000039	1946		
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	NT2RM1000118	F-NT2RM1000118	1953
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	NT2RM1000186	F-NT2RM1000186	1959
	NT2RM1000187	F-NT2RM1000187	1960
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20	NT2RM1000260	F-NT2RM1000260	1967
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45	NT2RM1000666	F-NT2RM1000666	1992
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15	NT2RM1000811	F-NT2RM1000811	2008
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20	NT2RM1000852	F-NT2RM1000852	2013
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25	NT2RM1000883	F-NT2RM1000883	2018
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30	NT2RM1000924	F-NT2RM1000924	2023
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	NT2RM1001092	F-NT2RM1001092	2037
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5	NT2RM2000013	F-NT2RM2000013	2044
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	NT2RM2000032	F-NT2RM2000032	2046
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	NT2RM2000191	F-NT2RM2000191	2052
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	NT2RM2001635	F-NT2RM2001635	2147
	NT2RM2001637	F-NT2RM2001637	2148
	NT2RM2001641	F-NT2RM2001641	2149
	NT2RM2001648	F-NT2RM2001648	2150
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	NT2RM2001659	F-NT2RM2001659	2152
	NT2RM2001664	F-NT2RM2001664	2153
	NT2RM2001668	F-NT2RM2001668	2154
	NT2RM2001670	F-NT2RM2001670	2155
25	NT2RM2001671	F-NT2RM2001671	2156
	NT2RM2001675	F-NT2RM2001675	2157
	NT2RM2001681	F-NT2RM2001681	2158
	NT2RM2001688	F-NT2RM2001688	2159
	NT2RM2001695	F-NT2RM2001695	2160
30	NT2RM2001696	F-NT2RM2001696	2161
	NT2RM2001698	F-NT2RM2001698	2162
	NT2RM2001699	F-NT2RM2001699	2163
	NT2RM2001700	F-NT2RM2001700	2164
	NT2RM2001706	F-NT2RM2001706	2165
35	NT2RM2001716	F-NT2RM2001716	2166
	NT2RM2001718	F-NT2RM2001718	2167
	NT2RM2001723	F-NT2RM2001723	2168
	NT2RM2001727	F-NT2RM2001727	2169
	NT2RM2001730	F-NT2RM2001730	2170
40	NT2RM2001743	F-NT2RM2001743	2171
	NT2RM2001753	F-NT2RM2001753	2172
	NT2RM2001760	F-NT2RM2001760	2173
	NT2RM2001768	F-NT2RM2001768	2174
	NT2RM2001771	F-NT2RM2001771	2175
45	NT2RM2001782	F-NT2RM2001782	2176
	NT2RM2001784	F-NT2RM2001784	2177

	NT2RM2001785	F-NT2RM2001785	2178		
	NT2RM2001797	F-NT2RM2001797	2179		
	NT2RM2001800	F-NT2RM2001800	2180		
	NT2RM2001803	F-NT2RM2001803	2181		
5	NT2RM2001805	F-NT2RM2001805	2182		
	NT2RM2001813	F-NT2RM2001813	2183		
	NT2RM2001823	F-NT2RM2001823	2184		
	NT2RM2001839	F-NT2RM2001839	2185		
	NT2RM2001840	F-NT2RM2001840	2186		
10	NT2RM2001855	F-NT2RM2001855	2187		
	NT2RM2001867	F-NT2RM2001867	2188		
	NT2RM2001879	F-NT2RM2001879	2189		
	NT2RM2001886	F-NT2RM2001886	2190		
	NT2RM2001896	F-NT2RM2001896	2191		
15	NT2RM2001903	F-NT2RM2001903	2192		
	NT2RM2001930	F-NT2RM2001930	2193		
	NT2RM2001935	F-NT2RM2001935	2194		
	NT2RM2001936	F-NT2RM2001936	2195		
	NT2RM2001950	F-NT2RM2001950	2196		
20	NT2RM2001982	F-NT2RM2001982	2197		
	NT2RM2001983	F-NT2RM2001983	2198		
	NT2RM2001989	F-NT2RM2001989	2199		
	NT2RM2001997	F-NT2RM2001997	2200		
	NT2RM2001998	F-NT2RM2001998	2201		
25	NT2RM2002004	F-NT2RM2002004	2202		
	NT2RM2002014	F-NT2RM2002014	2203		
	NT2RM2002030	F-NT2RM2002030	2204		
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	NT2RM2002055	F-NT2RM2002055	2206		
30	NT2RM2002088	F-NT2RM2002088	2207		
	NT2RM2002091	F-NT2RM2002091	2208		
	NT2RM2002100	F-NT2RM2002100	2209		
	NT2RM2002109	F-NT2RM2002109	2210		
	NT2RM2002128	F-NT2RM2002128	2211		
35	NT2RM2002142	F-NT2RM2002142	2212		
	NT2RM2002145	F-NT2RM2002145	2213		
	NT2RM2002178	F-NT2RM2002178	2214		
	NT2RM2002580	F-NT2RM2002580	2215	R-NT2RM2002580	7437
	NT2RM4000024	F-NT2RM4000024	2216	R-NT2RM4000024	7438
40	NT2RM4000027	F-NT2RM4000027	2217	R-NT2RM4000027	7439
	NT2RM4000030	F-NT2RM4000030	2218	R-NT2RM4000030	7440
	NT2RM4000046	F-NT2RM4000046	2219	R-NT2RM4000046	7441
	NT2RM4000061	F-NT2RM4000061	2220	R-NT2RM4000061	7442
	NT2RM4000085	F-NT2RM4000085	2221	R-NT2RM4000085	7443
45	NT2RM4000086	F-NT2RM4000086	2222	R-NT2RM4000086	7444
	NT2RM4000104	F-NT2RM4000104	2223	R-NT2RM4000104	7445

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	NT2RM4000139	F-NT2RM4000139	2224	R-NT2RM4000139	7446
	NT2RM4000155	F-NT2RM4000155	2225	R-NT2RM4000155	7447
	NT2RM4000156	F-NT2RM4000156	2226	R-NT2RM4000156	7448
	NT2RM4000167	F-NT2RM4000167	2227	R-nnnnnnnnnnnnnnn	7449
5	NT2RM4000169	F-NT2RM4000169	2228	R-NT2RM4000169	7450
	NT2RM4000191	F-NT2RM4000191	2229	R-NT2RM4000191	7451
	NT2RM4000197	F-NT2RM4000197	2230	R-NT2RM4000197	7452
	NT2RM4000199	F-NT2RM4000199	2231	R-NT2RM4000199	7453
	NT2RM4000200	F-NT2RM4000200	2232	R-NT2RM4000200	7454
10	NT2RM4000202	F-NT2RM4000202	2233	R-NT2RM4000202	7455
	NT2RM4000210	F-NT2RM4000210	2234	R-NT2RM4000210	7456
	NT2RM4000215	F-NT2RM4000215	2235	R-NT2RM4000215	7457
	NT2RM4000229	F-NT2RM4000229	2236	R-nnnnnnnnnnnnnnn	7458
	NT2RM4000233	F-NT2RM4000233	2237	R-NT2RM4000233	7459
15	NT2RM4000244	F-NT2RM4000244	2238	R-NT2RM4000244	7460
	NT2RM4000251	F-NT2RM4000251	2239	R-NT2RM4000251	7461
	NT2RM4000265	F-NT2RM4000265	2240	R-NT2RM4000265	7462
	NT2RM4000290	F-NT2RM4000290	2241	R-NT2RM4000290	7463
	NT2RM4000324	F-NT2RM4000324	2242	R-NT2RM4000324	7464
20	NT2RM4000327	F-NT2RM4000327	2243	R-NT2RM4000327	7465
	NT2RM4000344	F-NT2RM4000344	2244	R-NT2RM4000344	7466
	NT2RM4000349	F-NT2RM4000349	2245	R-NT2RM4000349	7467
	NT2RM4000354	F-NT2RM4000354	2246	R-NT2RM4000354	7468
	NT2RM4000356	F-NT2RM4000356	2247	R-NT2RM4000356	7469
25	NT2RM4000366	F-NT2RM4000366	2248	R-NT2RM4000366	7470
	NT2RM4000368	F-NT2RM4000368	2249	R-NT2RM4000368	7471
	NT2RM4000386	F-NT2RM4000386	2250	R-NT2RM4000386	7472
	NT2RM4000395	F-NT2RM4000395	2251	R-NT2RM4000395	7473
	NT2RM4000414	F-NT2RM4000414	2252	R-NT2RM4000414	7474
30	NT2RM4000421	F-NT2RM4000421	2253	R-NT2RM4000421	7475
	NT2RM4000425	F-NT2RM4000425	2254	R-NT2RM4000425	7476
	NT2RM4000433	F-NT2RM4000433	2255	R-NT2RM4000433	7477
	NT2RM4000457	F-NT2RM4000457	2256	R-NT2RM4000457	7478
	NT2RM4000471	F-NT2RM4000471	2257	R-NT2RM4000471	7479
35	NT2RM4000486	F-NT2RM4000486	2258	R-NT2RM4000486	7480
	NT2RM4000496	F-NT2RM4000496	2259	R-NT2RM4000496	7481
	NT2RM4000511	F-NT2RM4000511	2260	R-NT2RM4000511	7482
	NT2RM4000514	F-NT2RM4000514	2261	R-NT2RM4000514	7483
	NT2RM4000515	F-NT2RM4000515	2262	R-nnnnnnnnnnnnnnn	7484
40	NT2RM4000520	F-NT2RM4000520	2263	R-NT2RM4000520	7485
	NT2RM4000531	F-NT2RM4000531	2264	R-NT2RM4000531	7486
	NT2RM4000532	F-NT2RM4000532	2265	R-NT2RM4000532	7487
	NT2RM4000534	F-NT2RM4000534	2266	R-NT2RM4000534	7488
	NT2RM4000585	F-NT2RM4000585	2267	R-NT2RM4000585	7489
45	NT2RM4000590	F-NT2RM4000590	2268	R-NT2RM4000590	7490
	NT2RM4000595	F-NT2RM4000595	2269	R-NT2RM4000595	7491

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NT2RM4000603	F-NT2RM4000603
NT2RM4000611	F-NT2RM4000611
NT2RM4000616	F-NT2RM4000616
NT2RM4000674	F-NT2RM4000674
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NT2RM4000887	F-NT2RM4000887
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NT2RM4000950	F-NT2RM4000950
NT2RM4000971	F-NT2RM4000971
NT2RM4000979	F-NT2RM4000979
NT2RM4000996	F-NT2RM4000996
NT2RM4001002	F-NT2RM4001002
NT2RM4001016	F-NT2RM4001016
NT2RM4001032	F-NT2RM4001032
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NT2RM4001151	F-NT2RM4001151
NT2RM4001155	F-NT2RM4001155
NT2RM4001160	F-NT2RM4001160
NT2RM4001187	F-NT2RM4001187

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R-NT2RM4000616	7494
R-NT2RM4000674	7495
R-NT2RM4000689	7496
R-NT2RM4000698	7497
R-nnnnnnnnnnnnnnn	7498
R-NT2RM4000712	7499
R-NT2RM4000717	7500
R-NT2RM4000733	7501
R-NT2RM4000734	7502
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R-NT2RM4000764	7505
R-NT2RM4000778	7506
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R-NT2RM4000787	7508
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R-NT2RM4000796	7511
R-NT2RM4000798	7512
R-NT2RM4000813	7513
R-NT2RM4000820	7514
R-NT2RM4000833	7515
R-NT2RM4000848	7516
R-NT2RM4000852	7517
R-NT2RM4000855	7518
R-nnnnnnnnnnnnnnn	7519
R-NT2RM4000895	7520
R-NT2RM4000950	7521
R-NT2RM4000971	7522
R-NT2RM4000979	7523
R-NT2RM4000996	7524
R-NT2RM4001002	7525
R-NT2RM4001016	7526
R-NT2RM4001032	7527
R-NT2RM4001047	7528
R-NT2RM4001054	7529
R-nnnnnnnnnnnnnnn	7530
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R-NT2RM4001116	7532
R-NT2RM4001140	7533
R-NT2RM4001151	7534
R-NT2RM4001155	7535
R-NT2RM4001160	7536
R-NT2RM4001187	7537

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	NT2RM4001191	F-NT2RM4001191	2316	R-NT2RM4001191	7538
	NT2RM4001200	F-NT2RM4001200	2317	R-NT2RM4001200	7539
	NT2RM4001203	F-NT2RM4001203	2318	R-NT2RM4001203	7540
	NT2RM4001204	F-NT2RM4001204	2319	R-NT2RM4001204	7541
5	NT2RM4001217	F-NT2RM4001217	2320	R-NT2RM4001217	7542
	NT2RM4001256	F-NT2RM4001256	2321	R-NT2RM4001256	7543
	NT2RM4001258	F-NT2RM4001258	2322	R-NT2RM4001258	7544
	NT2RM4001309	F-NT2RM4001309	2323	R-NT2RM4001309	7545
	NT2RM4001313	F-NT2RM4001313	2324	R-NT2RM4001313	7546
10	NT2RM4001316	F-NT2RM4001316	2325	R-NT2RM4001316	7547
	NT2RM4001320	F-NT2RM4001320	2326	R-NT2RM4001320	7548
	NT2RM4001340	F-NT2RM4001340	2327	R-NT2RM4001340	7549
	NT2RM4001344	F-NT2RM4001344	2328	R-NT2RM4001344	7550
	NT2RM4001347	F-NT2RM4001347	2329	R-NT2RM4001347	7551
15	NT2RM4001371	F-NT2RM4001371	2330	R-NT2RM4001371	7552
	NT2RM4001382	F-NT2RM4001382	2331	R-NT2RM4001382	7553
	NT2RM4001384	F-NT2RM4001384	2332	R-NT2RM4001384	7554
	NT2RM4001410	F-NT2RM4001410	2333	R-NT2RM4001410	7555
	NT2RM4001411	F-NT2RM4001411	2334	R-NT2RM4001411	7556
20	NT2RM4001412	F-NT2RM4001412	2335	R-NT2RM4001412	7557
	NT2RM4001414	F-NT2RM4001414	2336	R-NT2RM4001414	7558
	NT2RM4001437	F-NT2RM4001437	2337	R-NT2RM4001437	7559
	NT2RM4001444	F-NT2RM4001444	2338	R-NT2RM4001444	7560
	NT2RM4001454	F-NT2RM4001454	2339	R-NT2RM4001454	7561
25	NT2RM4001455	F-NT2RM4001455	2340	R-NT2RM4001455	7562
	NT2RM4001483	F-NT2RM4001483	2341	R-NT2RM4001483	7563
	NT2RM4001489	F-NT2RM4001489	2342	R-NT2RM4001489	7564
	NT2RM4001519	F-NT2RM4001519	2343	R-NT2RM4001519	7565
	NT2RM4001522	F-NT2RM4001522	2344	R-NT2RM4001522	7566
30	NT2RM4001557	F-NT2RM4001557	2345	R-NT2RM4001557	7567
	NT2RM4001565	F-NT2RM4001565	2346	R-NT2RM4001565	7568
	NT2RM4001566	F-NT2RM4001566	2347	R-NT2RM4001566	7569
	NT2RM4001569	F-NT2RM4001569	2348	R-NT2RM4001569	7570
	NT2RM4001582	F-NT2RM4001582	2349	R-NT2RM4001582	7571
35	NT2RM4001592	F-NT2RM4001592	2350	R-nnnnnnnnnnnnn	7572
	NT2RM4001594	F-NT2RM4001594	2351	R-NT2RM4001594	7573
	NT2RM4001597	F-NT2RM4001597	2352	R-NT2RM4001597	7574
	NT2RM4001605	F-NT2RM4001605	2353	R-NT2RM4001605	7575
	NT2RM4001611	F-NT2RM4001611	2354	R-NT2RM4001611	7576
40	NT2RM4001629	F-NT2RM4001629	2355	R-NT2RM4001629	7577
	NT2RM4001650	F-NT2RM4001650	2356	R-NT2RM4001650	7578
	NT2RM4001662	F-NT2RM4001662	2357	R-NT2RM4001662	7579
	NT2RM4001666	F-NT2RM4001666	2358	R-NT2RM4001666	7580
	NT2RM4001682	F-NT2RM4001682	2359	R-NT2RM4001682	7581
45	NT2RM4001710	F-NT2RM4001710	2360	R-NT2RM4001710	7582
	NT2RM4001714	F-NT2RM4001714	2361	R-NT2RM4001714	7583

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	NT2RM4001715	F-NT2RM4001715	2362	R-nnnnnnnnnnnnn	7584
	NT2RM4001731	F-NT2RM4001731	2363	R-NT2RM4001731	7585
	NT2RM4001741	F-NT2RM4001741	2364	R-NT2RM4001741	7586
	NT2RM4001746	F-NT2RM4001746	2365	R-NT2RM4001746	7587
5	NT2RM4001754	F-NT2RM4001754	2366	R-NT2RM4001754	7588
	NT2RM4001758	F-NT2RM4001758	2367	R-NT2RM4001758	7589
	NT2RM4001776	F-NT2RM4001776	2368	R-NT2RM4001776	7590
	NT2RM4001783	F-NT2RM4001783	2369	R-NT2RM4001783	7591
	NT2RM4001810	F-NT2RM4001810	2370	R-NT2RM4001810	7592
10	NT2RM4001813	F-NT2RM4001813	2371	R-NT2RM4001813	7593
	NT2RM4001819	F-NT2RM4001819	2372		
	NT2RM4001823	F-NT2RM4001823	2373	R-NT2RM4001823	7594
	NT2RM4001828	F-NT2RM4001828	2374	R-NT2RM4001828	7595
	NT2RM4001836	F-NT2RM4001836	2375	R-NT2RM4001836	7596
15	NT2RM4001841	F-NT2RM4001841	2376	R-NT2RM4001841	7597
	NT2RM4001842	F-NT2RM4001842	2377	R-NT2RM4001842	7598
	NT2RM4001856	F-NT2RM4001856	2378	R-NT2RM4001856	7599
	NT2RM4001858	F-NT2RM4001858	2379	R-nnnnnnnnnnnnn	7600
	NT2RM4001865	F-NT2RM4001865	2380	R-NT2RM4001865	7601
20	NT2RM4001876	F-NT2RM4001876	2381	R-NT2RM4001876	7602
	NT2RM4001880	F-NT2RM4001880	2382	R-NT2RM4001880	7603
	NT2RM4001905	F-NT2RM4001905	2383	R-NT2RM4001905	7604
	NT2RM4001922	F-NT2RM4001922	2384	R-NT2RM4001922	7605
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25	NT2RM4001938	F-NT2RM4001938	2386	R-NT2RM4001938	7607
	NT2RM4001940	F-NT2RM4001940	2387	R-NT2RM4001940	7608
	NT2RM4001953	F-NT2RM4001953	2388	R-NT2RM4001953	7609
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	NT2RM4001969	F-NT2RM4001969	2390	R-nnnnnnnnnnnnn	7611
30	NT2RM4001979	F-NT2RM4001979	2391	R-NT2RM4001979	7612
	NT2RM4001984	F-NT2RM4001984	2392	R-NT2RM4001984	7613
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	NT2RM4002013	F-NT2RM4002013	2394	R-NT2RM4002013	7615
	NT2RM4002018	F-NT2RM4002018	2395	R-NT2RM4002018	7616
35	NT2RM4002034	F-NT2RM4002034	2396	R-NT2RM4002034	7617
	NT2RM4002044	F-NT2RM4002044	2397	R-NT2RM4002044	7618
	NT2RM4002054	F-NT2RM4002054	2398	R-NT2RM4002054	7619
	NT2RM4002055	F-NT2RM4002055	2399		
	NT2RM4002062	F-NT2RM4002062	2400	R-NT2RM4002062	7620
40	NT2RM4002063	F-NT2RM4002063	2401	R-NT2RM4002063	7621
	NT2RM4002066	F-NT2RM4002066	2402	R-nnnnnnnnnnnnn	7622
	NT2RM4002067	F-NT2RM4002067	2403	R-NT2RM4002067	7623
	NT2RM4002073	F-NT2RM4002073	2404	R-NT2RM4002073	7624
	NT2RM4002075	F-NT2RM4002075	2405	R-NT2RM4002075	7625
45	NT2RM4002093	F-NT2RM4002093	2406	R-NT2RM4002093	7626
	NT2RM4002109	F-NT2RM4002109	2407	R-nnnnnnnnnnnnn	7627

	NT2RM4002128	F-NT2RM4002128	2408	R-NT2RM4002128	7628
	NT2RM4002140	F-NT2RM4002140	2409	R-NT2RM4002140	7629
	NT2RM4002145	F-NT2RM4002145	2410	R-NT2RM4002145	7630
	NT2RM4002146	F-NT2RM4002146	2411	R-NT2RM4002146	7631
5	NT2RM4002161	F-NT2RM4002161	2412	R-NT2RM4002161	7632
	NT2RM4002174	F-NT2RM4002174	2413	R-NT2RM4002174	7633
	NT2RM4002189	F-NT2RM4002189	2414	R-NT2RM4002189	7634
	NT2RM4002194	F-NT2RM4002194	2415	R-NT2RM4002194	7635
	NT2RM4002205	F-NT2RM4002205	2416	R-NT2RM4002205	7636
10	NT2RM4002213	F-NT2RM4002213	2417	R-NT2RM4002213	7637
	NT2RM4002226	F-NT2RM4002226	2418	R-NT2RM4002226	7638
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	NT2RP2001576	F-NT2RP2001576	2721	R-NT2RP2001576	7809
	NT2RP2001581	F-NT2RP2001581	2722	R-NT2RP2001581	7810
40	NT2RP2001597	F-NT2RP2001597	2723	R-NT2RP2001597	7811
	NT2RP2001601	F-NT2RP2001601	2724	R-NT2RP2001601	7812
	NT2RP2001613	F-NT2RP2001613	2725	R-NT2RP2001613	7813
	NT2RP2001628	F-NT2RP2001628	2726	R-NT2RP2001628	7814
	NT2RP2001634	F-NT2RP2001634	2727		
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	NT2RP2001740	F-NT2RP2001740	2736	R-NT2RP2001740	7821
	NT2RP2001748	F-NT2RP2001748	2737	R-NT2RP2001748	7822
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	NT2RP2001839	F-NT2RP2001839	2740		
	NT2RP2001861	F-NT2RP2001861	2741	R-NT2RP2001861	7825
	NT2RP2001869	F-NT2RP2001869	2742	R-NT2RP2001869	7826
	NT2RP2001876	F-NT2RP2001876	2743	R-NT2RP2001876	7827
15	NT2RP2001883	F-NT2RP2001883	2744	R-NT2RP2001883	7828
	NT2RP2001898	F-NT2RP2001898	2745		
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	NT2RP2001907	F-NT2RP2001907	2747	R-NT2RP2001907	7830
	NT2RP2001926	F-NT2RP2001926	2748	R-NT2RP2001926	7831
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	NT2RP2001943	F-NT2RP2001943	2750	R-NT2RP2001943	7833
	NT2RP2001946	F-NT2RP2001946	2751	R-NT2RP2001946	7834
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	NT2RP2001985	F-NT2RP2001985	2755	R-NT2RP2001985	7838
	NT2RP2001991	F-NT2RP2001991	2756		
	NT2RP2002025	F-NT2RP2002025	2757	R-NT2RP2002025	7839
	NT2RP2002032	F-NT2RP2002032	2758	R-NT2RP2002032	7840
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	NT2RP2002046	F-NT2RP2002046	2761	R-NT2RP2002046	7843
	NT2RP2002047	F-NT2RP2002047	2762	R-NT2RP2002047	7844
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35	NT2RP2002066	F-NT2RP2002066	2764	R-NT2RP2002066	7846
	NT2RP2002070	F-NT2RP2002070	2765	R-NT2RP2002070	7847
	NT2RP2002076	F-NT2RP2002076	2766	R-NT2RP2002076	7848
	NT2RP2002078	F-NT2RP2002078	2767		
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	NT2RP2002124	F-NT2RP2002124	2771	R-NT2RP2002124	7852
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	NT2RP2002154	F-NT2RP2002154	2773	R-NT2RP2002154	7854
45	NT2RP2002172	F-NT2RP2002172	2774	R-NT2RP2002172	7855
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5	NT2RP2002231	F-NT2RP2002231	2780	R-NT2RP2002231	7861
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	NT2RP2002373	F-NT2RP2002373	2791		
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	NT2RP2002394	F-NT2RP2002394	2793	R-NT2RP2002394	7872
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	NT2RP2002439	F-NT2RP2002439	2796	R-NT2RP2002439	7875
	NT2RP2002442	F-NT2RP2002442	2797		
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	NT2RP2002464	F-NT2RP2002464	2799	R-NT2RP2002464	7877
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	NT2RP2002537	F-NT2RP2002537	2806	R-NT2RP2002537	7884
	NT2RP2002546	F-NT2RP2002546	2807	R-NT2RP2002546	7885
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	NT2RP2002618	F-NT2RP2002618	2813	R-NT2RP2002618	7891
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	NT2RP2002672	F-NT2RP2002672	2816	R-NT2RP2002672	7894
	NT2RP2002701	F-NT2RP2002701	2817	R-NT2RP2002701	7895
	NT2RP2002706	F-NT2RP2002706	2818	R-NT2RP2002706	7896
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	NT2RP2002736	F-NT2RP2002736	2821	R-NT2RP2002736	7899

	NT2RP2002740	F-NT2RP2002740	2822	R-NT2RP2002740	7900
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	NT2RP2002752	F-NT2RP2002752	2825	R-NT2RP2002752	7903
5	NT2RP2002753	F-NT2RP2002753	2826	R-NT2RP2002753	7904
	NT2RP2002769	F-NT2RP2002769	2827	R-NT2RP2002769	7905
	NT2RP2002778	F-NT2RP2002778	2828	R-NT2RP2002778	7906
	NT2RP2002800	F-NT2RP2002800	2829	R-NT2RP2002800	7907
	NT2RP2002839	F-NT2RP2002839	2830	R-NT2RP2002839	7908
10	NT2RP2002857	F-NT2RP2002857	2831	R-NT2RP2002857	7909
	NT2RP2002862	F-NT2RP2002862	2832	R-NT2RP2002862	7910
	NT2RP2002880	F-NT2RP2002880	2833	R-NT2RP2002880	7911
	NT2RP2002891	F-NT2RP2002891	2834	R-NT2RP2002891	7912
	NT2RP2002925	F-NT2RP2002925	2835	R-NT2RP2002925	7913
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	NT2RP2002929	F-NT2RP2002929	2837	R-NT2RP2002929	7915
	NT2RP2002939	F-NT2RP2002939	2838		
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	NT2RP2002986	F-NT2RP2002986	2843	R-NT2RP2002986	7920
	NT2RP2002987	F-NT2RP2002987	2844	R-NT2RP2002987	7921
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	NT2RP2003158	F-NT2RP2003158	2857		
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	NT2RP2003164	F-NT2RP2003164	2859	R-NT2RP2003164	7934
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	NT2RP2003206	F-NT2RP2003206	2863	R-NT2RP2003206	7938
	NT2RP2003228	F-NT2RP2003228	2864		
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	NT2RP2003243	F-NT2RP2003243	2867	R-NT2RP2003243	7941

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	NT2RP2003293	F-NT2RP2003293	2873	R-NT2RP2003293	7947
	NT2RP2003295	F-NT2RP2003295	2874	R-NT2RP2003295	7948
	NT2RP2003297	F-NT2RP2003297	2875	R-NT2RP2003297	7949
	NT2RP2003307	F-NT2RP2003307	2876		
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	NT2RP2003329	F-NT2RP2003329	2878	R-NT2RP2003329	7951
	NT2RP2003339	F-NT2RP2003339	2879	R-NT2RP2003339	7952
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15	NT2RP2003391	F-NT2RP2003391	2882	R-NT2RP2003391	7955
	NT2RP2003393	F-NT2RP2003393	2883	R-NT2RP2003393	7956
	NT2RP2003394	F-NT2RP2003394	2884	R-NT2RP2003394	7957
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	NT2RP2003433	F-NT2RP2003433	2886	R-NT2RP2003433	7959
20	NT2RP2003445	F-NT2RP2003445	2887	R-NT2RP2003445	7960
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	NT2RP2003456	F-NT2RP2003456	2889	R-NT2RP2003456	7962
	NT2RP2003466	F-NT2RP2003466	2890		
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30	NT2RP2003522	F-NT2RP2003522	2897	R-NT2RP2003522	7969
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	NT2RP2003543	F-NT2RP2003543	2899	R-NT2RP2003543	7971
	NT2RP2003559	F-NT2RP2003559	2900	R-NT2RP2003559	7972
	NT2RP2003564	F-NT2RP2003564	2901	R-NT2RP2003564	7973
35	NT2RP2003567	F-NT2RP2003567	2902		
	NT2RP2003581	F-NT2RP2003581	2903	R-NT2RP2003581	7974
	NT2RP2003596	F-NT2RP2003596	2904	R-NT2RP2003596	7975
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	NT2RP2003793	F-NT2RP2003793	2925	R-NT2RP2003793	7996
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25	NT2RP2003986	F-NT2RP2003986	2938	R-NT2RP2003986	8008
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30	NT2RP2004042	F-NT2RP2004042	2943	R-NT2RP2004042	8012
	NT2RP2004066	F-NT2RP2004066	2944	R-ntntntntntntntntntntnt	8013
	NT2RP2004081	F-NT2RP2004081	2945	R-NT2RP2004081	8014
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	NT2RP2004170	F-NT2RP2004170	2951	R-NT2RP2004170	8020
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40	NT2RP2004187	F-NT2RP2004187	2953	R-NT2RP2004187	8022
	NT2RP2004194	F-NT2RP2004194	2954	R-NT2RP2004194	8023
	NT2RP2004196	F-NT2RP2004196	2955	R-NT2RP2004196	8024
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	NT2RP2004226	F-NT2RP2004226	2957	R-NT2RP2004226	8026
45	NT2RP2004232	F-NT2RP2004232	2958	R-NT2RP2004232	8027
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	NT2RP2004245	F-NT2RP2004245	2962	R-NT2RP2004245	8031
	NT2RP2004270	F-NT2RP2004270	2963	R-NT2RP2004270	8032
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	NT2RP2004316	F-NT2RP2004316	2965	R-NT2RP2004316	8034
	NT2RP2004321	F-NT2RP2004321	2966	R-NT2RP2004321	8035
	NT2RP2004339	F-NT2RP2004339	2967	R-NT2RP2004339	8036
	NT2RP2004347	F-NT2RP2004347	2968	R-NT2RP2004347	8037
10	NT2RP2004364	F-NT2RP2004364	2969	R-NT2RP2004364	8038
	NT2RP2004365	F-NT2RP2004365	2970	R-NT2RP2004365	8039
	NT2RP2004366	F-NT2RP2004366	2971	R-NT2RP2004366	8040
	NT2RP2004373	F-NT2RP2004373	2972	R-NT2RP2004373	8041
	NT2RP2004389	F-NT2RP2004389	2973	R-NT2RP2004389	8042
15	NT2RP2004392	F-NT2RP2004392	2974	R-NT2RP2004392	8043
	NT2RP2004396	F-NT2RP2004396	2975	R-NT2RP2004396	8044
	NT2RP2004399	F-NT2RP2004399	2976	R-NT2RP2004399	8045
	NT2RP2004400	F-NT2RP2004400	2977	R-NT2RP2004400	8046
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	NT2RP2004463	F-NT2RP2004463	2980		
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	NT2RP2004490	F-NT2RP2004490	2982	R-NT2RP2004490	8050
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	NT2RP2004568	F-NT2RP2004568	2987	R-NT2RP2004568	8055
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	NT2RP2004600	F-NT2RP2004600	2991	R-NT2RP2004600	8059
	NT2RP2004602	F-NT2RP2004602	2992	R-NT2RP2004602	8060
	NT2RP2004614	F-NT2RP2004614	2993	R-NT2RP2004614	8061
35	NT2RP2004655	F-NT2RP2004655	2994	R-NT2RP2004655	8062
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	NT2RP2004675	F-NT2RP2004675	2996	R-NT2RP2004675	8064
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	NT2RP2004689	F-NT2RP2004689	2998	R-NT2RP2004689	8066
40	NT2RP2004709	F-NT2RP2004709	2999	R-NT2RP2004709	8067
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	NT2RP2004816	F-NT2RP2004816	3009	R-NT2RP2004816	8076
5	NT2RP2004841	F-NT2RP2004841	3010	R-NT2RP2004841	8077
	NT2RP2004861	F-NT2RP2004861	3011	R-NT2RP2004861	8078
	NT2RP2004897	F-NT2RP2004897	3012	R-NT2RP2004897	8079
	NT2RP2004933	F-NT2RP2004933	3013		
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10	NT2RP2004959	F-NT2RP2004959	3015	R-nnnnnnnnnnnnn	8081
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	NT2RP2004962	F-NT2RP2004962	3017	R-NT2RP2004962	8083
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	NT2RP2004999	F-NT2RP2004999	3022	R-NT2RP2004999	8088
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	NT2RP2005001	F-NT2RP2005001	3024	R-NT2RP2005001	8090
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	NT2RP2005022	F-NT2RP2005022	3029		
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	NT2RP2005037	F-NT2RP2005037	3031	R-NT2RP2005037	8096
	NT2RP2005038	F-NT2RP2005038	3032	R-NT2RP2005038	8097
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	NT2RP2005144	F-NT2RP2005144	3038	R-NT2RP2005144	8103
	NT2RP2005147	F-NT2RP2005147	3039	R-NT2RP2005147	8104
35	NT2RP2005159	F-NT2RP2005159	3040	R-NT2RP2005159	8105
	NT2RP2005162	F-NT2RP2005162	3041	R-NT2RP2005162	8106
	NT2RP2005168	F-NT2RP2005168	3042	R-NT2RP2005168	8107
	NT2RP2005204	F-NT2RP2005204	3043	R-NT2RP2005204	8108
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40	NT2RP2005239	F-NT2RP2005239	3045	R-NT2RP2005239	8110
	NT2RP2005254	F-NT2RP2005254	3046	R-NT2RP2005254	8111
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	NT2RP2005276	F-NT2RP2005276	3048	R-NT2RP2005276	8113
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45	NT2RP2005288	F-NT2RP2005288	3050	R-NT2RP2005288	8115
	NT2RP2005289	F-NT2RP2005289	3051	R-NT2RP2005289	8116

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	NT2RP2005315	F-NT2RP2005315	3053	R-NT2RP2005315	8118
	NT2RP2005325	F-NT2RP2005325	3054	R-NT2RP2005325	8119
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10	NT2RP2005354	F-NT2RP2005354	3057	R-NT2RP2005354	8122
	NT2RP2005358	F-NT2RP2005358	3058		
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	NT2RP2005457	F-NT2RP2005457	3065	R-NT2RP2005457	8129
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35	NT2RP2005549	F-NT2RP2005549	3082	R-NT2RP2005549	8146
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	NT2RP2005581	F-NT2RP2005581	3085	R-NT2RP2005581	8149
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40	NT2RP2005605	F-NT2RP2005605	3087	R-NT2RP2005605	8151
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45	NT2RP2005640	F-NT2RP2005640	3092	R-NT2RP2005640	8155
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	NT2RP2005654	F-NT2RP2005654	3095	R-NT2RP2005654	8158
	NT2RP2005669	F-NT2RP2005669	3096	R-NT2RP2005669	8159
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	NT2RP2005748	F-NT2RP2005748	3109	R-NT2RP2005748	8171
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	NT2RP2005901	F-NT2RP2005901	3129	R-NT2RP2005901	8190
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35	NT2RP2005942	F-NT2RP2005942	3132	R-NT2RP2005942	8193
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	NT2RP2006023	F-NT2RP2006023	3134	R-NT2RP2006023	8195
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	NT2RP2006071	F-NT2RP2006071	3139	R-NT2RP2006071	8200
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	NT2RP2006106	F-NT2RP2006106	3143		

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	NT2RP2006166	F-NT2RP2006166	3145	R-NT2RP2006166	8205
	NT2RP2006184	F-NT2RP2006184	3146	R-NT2RP2006184	8206
	NT2RP2006186	F-NT2RP2006186	3147	R-NT2RP2006186	8207
5	NT2RP2006196	F-NT2RP2006196	3148	R-NT2RP2006196	8208
	NT2RP2006200	F-NT2RP2006200	3149	R-NT2RP2006200	8209
	NT2RP2006219	F-NT2RP2006219	3150	R-NT2RP2006219	8210
	NT2RP2006237	F-NT2RP2006237	3151	R-NT2RP2006237	8211
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10	NT2RP2006258	F-NT2RP2006258	3153	R-NT2RP2006258	8213
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	NT2RP2006275	F-NT2RP2006275	3155		
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	NT2RP2006320	F-NT2RP2006320	3157	R-NT2RP2006320	8216
15	NT2RP2006321	F-NT2RP2006321	3158	R-NT2RP2006321	8217
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	NT2RP2006333	F-NT2RP2006333	3160	R-NT2RP2006333	8219
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20	NT2RP2006393	F-NT2RP2006393	3163	R-NT2RP2006393	8222
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	NT2RP2006456	F-NT2RP2006456	3167	R-NT2RP2006456	8226
25	NT2RP2006464	F-NT2RP2006464	3168	R-NT2RP2006464	8227
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	NT2RP2006573	F-NT2RP2006573	3175	R-NNNNNNNNNNNN	8234
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	NT2RP3000047	F-NT2RP3000047	3180	R-NT2RP3000047	8239
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	NT2RP3000085	F-NT2RP3000085	3186	R-NT2RP3000085	8244
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	NT2RP3000186	F-NT2RP3000186	3192	R-NT2RP3000186	8249
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5	NT2RP3000207	F-NT2RP3000207	3194	R-NT2RP3000207	8251
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	NT2RP3000267	F-NT2RP3000267	3202	R-NT2RP3000267	8259
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	NT2RP3000320	F-NT2RP3000320	3205	R-NT2RP3000320	8262
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	NT2RP3000333	F-NT2RP3000333	3207	R-NT2RP3000333	8264
	NT2RP3000341	F-NT2RP3000341	3208	R-NT2RP3000341	8265
20	NT2RP3000348	F-NT2RP3000348	3209	R-NT2RP3000348	8266
	NT2RP3000350	F-NT2RP3000350	3210	R-NT2RP3000350	8267
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	NT2RP3000361	F-NT2RP3000361	3212	R-NT2RP3000361	8269
	NT2RP3000366	F-NT2RP3000366	3213	R-NT2RP3000366	8270
25	NT2RP3000393	F-NT2RP3000393	3214		
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	NT2RP3000403	F-NT2RP3000403	3216	R-NT2RP3000403	8272
	NT2RP3000418	F-NT2RP3000418	3217	R-NT2RP3000418	8273
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30	NT2RP3000439	F-NT2RP3000439	3219	R-NT2RP3000439	8275
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	NT2RP3000739	F-NT2RP3000739	3252		
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35	NT2RP3001338	F-NT2RP3001338	3316	R-NT2RP3001338	8369
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	NT2RP3001634	F-NT2RP3001634	3354	R-NT2RP3001634	8406
	NT2RP3001642	F-NT2RP3001642	3355	R-NT2RP3001642	8407
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	NT2RP3001727	F-NT2RP3001727	3369		
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	NT2RP3002165	F-NT2RP3002165	3415	R-NT2RP3002165	8463
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5	NT2RP3002303	F-NT2RP3002303	3424	R-NT2RP3002303	8472
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	NT2RP3002343	F-NT2RP3002343	3427	R-NT2RP3002343	8475
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	NT2RP3002402	F-NT2RP3002402	3432		
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15	NT2RP3003032	F-NT2RP3003032	3478	R-NT2RP3003032	8520
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	NT2RP4001219	F-NT2RP4001219	3741	R-NT2RP4001219	8765

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	NT2RP4001256	F-NT2RP4001256	3744	R-NT2RP4001256	8768
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	NT2RP4001276	F-NT2RP4001276	3747	R-ntntntntntntntntntntnt	8771
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	NT2RP4001343	F-NT2RP4001343	3752		
	NT2RP4001345	F-NT2RP4001345	3753	R-NT2RP4001345	8775
	NT2RP4001351	F-NT2RP4001351	3754	R-NT2RP4001351	8776
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	NT2RP4001375	F-NT2RP4001375	3758	R-NT2RP4001375	8780
	NT2RP4001379	F-NT2RP4001379	3759	R-NT2RP4001379	8781
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	NT2RP4001433	F-NT2RP4001433	3763	R-NT2RP4001433	8785
	NT2RP4001442	F-NT2RP4001442	3764	R-NT2RP4001442	8786
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	NT2RP4001483	F-NT2RP4001483	3767	R-NT2RP4001483	8789
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	NT2RP4001502	F-NT2RP4001502	3769	R-NT2RP4001502	8791
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	NT2RP4001551	F-NT2RP4001551	3774	R-ntntntntntntntntntntnt	8796
	NT2RP4001555	F-NT2RP4001555	3775	R-NT2RP4001555	8797
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5	NT2RP4001730	F-NT2RP4001730	3792	R-ntntntntntntntntntntnt	8813
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10	NT2RP4001803	F-NT2RP4001803	3797	R-NT2RP4001803	8818
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	NT2RP4001823	F-NT2RP4001823	3799	R-NT2RP4001823	8820
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	NT2RP4001838	F-NT2RP4001838	3801	R-NT2RP4001838	8822
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	NT2RP4001861	F-NT2RP4001861	3804		
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	NT2RP4001893	F-NT2RP4001893	3806	R-NT2RP4001893	8825
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	NT2RP4001901	F-NT2RP4001901	3808	R-NT2RP4001901	8827
	NT2RP4001927	F-NT2RP4001927	3809	R-NT2RP4001927	8828
	NT2RP4001938	F-NT2RP4001938	3810	R-NT2RP4001938	8829
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	NT2RP4002905	F-NT2RP4002905	3828	R-NT2RP4002905	8847
	NT2RP5003459	F-NT2RP5003459	3829		
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	NT2RP5003477	F-NT2RP5003477	3831		
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	NT2RP5003522	F-NT2RP5003522	3836		
	NT2RP5003524	F-NT2RP5003524	3837		
5	NT2RP5003534	F-NT2RP5003534	3838		
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	OVARC1000004	F-OVARC1000004	3840	R-OVARC1000004	8849
	OVARC1000006	F-OVARC1000006	3841	R-OVARC1000006	8850
	OVARC1000013	F-OVARC1000013	3842	R-OVARC1000013	8851
10	OVARC1000014	F-OVARC1000014	3843	R-OVARC1000014	8852
	OVARC1000017	F-OVARC1000017	3844	R-OVARC1000017	8853
	OVARC1000035	F-OVARC1000035	3845	R-OVARC1000035	8854
	OVARC1000058	F-OVARC1000058	3846	R-OVARC1000058	8855
	OVARC1000060	F-OVARC1000060	3847	R-OVARC1000060	8856
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	OVARC1000071	F-OVARC1000071	3849	R-OVARC1000071	8858
	OVARC1000085	F-OVARC1000085	3850	R-OVARC1000085	8859
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	OVARC1000109	F-OVARC1000109	3855		
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	OVARC1000198	F-OVARC1000198	3865	R-OVARC1000198	8872
	OVARC1000209	F-OVARC1000209	3866	R-OVARC1000209	8873
	OVARC1000212	F-OVARC1000212	3867	R-OVARC1000212	8874
35	OVARC1000240	F-OVARC1000240	3868	R-OVARC1000240	8875
	OVARC1000241	F-OVARC1000241	3869	R-OVARC1000241	8876
	OVARC1000288	F-OVARC1000288	3870	R-OVARC1000288	8877
	OVARC1000302	F-OVARC1000302	3871	R-OVARC1000302	8878
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	OVARC1000321	F-OVARC1000321	3874	R-OVARC1000321	8881
	OVARC1000326	F-OVARC1000326	3875	R-OVARC1000326	8882
	OVARC1000335	F-OVARC1000335	3876	R-OVARC1000335	8883
	OVARC1000347	F-OVARC1000347	3877	R-OVARC1000347	8884
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	OVARC1000408	F-OVARC1000408	3879	R-OVARC1000408	8886

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	OVARC1000414	F-OVARC1000414	3881	R-OVARC1000414	8888
	OVARC1000420	F-OVARC1000420	3882	R-OVARC1000420	8889
	OVARC1000427	F-OVARC1000427	3883	R-OVARC1000427	8890
5	OVARC1000431	F-OVARC1000431	3884	R-OVARC1000431	8891
	OVARC1000437	F-OVARC1000437	3885	R-OVARC1000437	8892
	OVARC1000440	F-OVARC1000440	3886	R-OVARC1000440	8893
	OVARC1000442	F-OVARC1000442	3887	R-OVARC1000442	8894
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10	OVARC1000461	F-OVARC1000461	3889	R-OVARC1000461	8896
	OVARC1000465	F-OVARC1000465	3890	R-OVARC1000465	8897
	OVARC1000466	F-OVARC1000466	3891	R-OVARC1000466	8898
	OVARC1000473	F-OVARC1000473	3892	R-OVARC1000473	8899
	OVARC1000479	F-OVARC1000479	3893	R-OVARC1000479	8900
15	OVARC1000486	F-OVARC1000486	3894	R-OVARC1000486	8901
	OVARC1000496	F-OVARC1000496	3895	R-OVARC1000496	8902
	OVARC1000520	F-OVARC1000520	3896	R-OVARC1000520	8903
	OVARC1000526	F-OVARC1000526	3897	R-OVARC1000526	8904
	OVARC1000533	F-OVARC1000533	3898	R-OVARC1000533	8905
20	OVARC1000543	F-OVARC1000543	3899	R-OVARC1000543	8906
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	OVARC1000557	F-OVARC1000557	3901	R-OVARC1000557	8908
	OVARC1000564	F-OVARC1000564	3902	R-OVARC1000564	8909
	OVARC1000573	F-OVARC1000573	3903	R-OVARC1000573	8910
25	OVARC1000576	F-OVARC1000576	3904		
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	OVARC1000588	F-OVARC1000588	3906	R-OVARC1000588	8912
	OVARC1000605	F-OVARC1000605	3907	R-OVARC1000605	8913
	OVARC1000622	F-OVARC1000622	3908	R-OVARC1000622	8914
30	OVARC1000640	F-OVARC1000640	3909	R-OVARC1000640	8915
	OVARC1000649	F-OVARC1000649	3910		
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	OVARC1000678	F-OVARC1000678	3912	R-OVARC1000678	8917
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35	OVARC1000681	F-OVARC1000681	3914	R-OVARC1000681	8919
	OVARC1000682	F-OVARC1000682	3915		
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	OVARC1000700	F-OVARC1000700	3917	R-OVARC1000700	8921
	OVARC1000703	F-OVARC1000703	3918	R-OVARC1000703	8922
40	OVARC1000722	F-OVARC1000722	3919		
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	OVARC1000769	F-OVARC1000769	3922	R-OVARC1000769	8925
	OVARC1000771	F-OVARC1000771	3923	R-OVARC1000771	8926
45	OVARC1000781	F-OVARC1000781	3924	R-OVARC1000781	8927
	OVARC1000787	F-OVARC1000787	3925	R-OVARC1000787	8928

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	OVARC1000802	F-OVARC1000802	3927	R-OVARC1000802	8930
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5	OVARC1000850	F-OVARC1000850	3930	R-OVARC1000850	8933
	OVARC1000862	F-OVARC1000862	3931	R-OVARC1000862	8934
	OVARC1000876	F-OVARC1000876	3932	R-OVARC1000876	8935
	OVARC1000883	F-OVARC1000883	3933	R-OVARC1000883	8936
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	OVARC1000936	F-OVARC1000936	3942	R-OVARC1000936	8944
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25	OVARC1000984	F-OVARC1000984	3950	R-OVARC1000984	8951
	OVARC1000996	F-OVARC1000996	3951	R-OVARC1000996	8952
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	OVARC1001032	F-OVARC1001032	3957	R-OVARC1001032	8958
	OVARC1001034	F-OVARC1001034	3958	R-OVARC1001034	8959
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35	OVARC1001040	F-OVARC1001040	3960	R-OVARC1001040	8961
	OVARC1001044	F-OVARC1001044	3961	R-OVARC1001044	8962
	OVARC1001051	F-OVARC1001051	3962	R-OVARC1001051	8963
	OVARC1001055	F-OVARC1001055	3963	R-OVARC1001055	8964
	OVARC1001062	F-OVARC1001062	3964	R-OVARC1001062	8965
40	OVARC1001065	F-OVARC1001065	3965		
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	OVARC1001072	F-OVARC1001072	3967	R-OVARC1001072	8967
	OVARC1001074	F-OVARC1001074	3968	R-OVARC1001074	8968
	OVARC1001085	F-OVARC1001085	3969	R-OVARC1001085	8969
45	OVARC1001092	F-OVARC1001092	3970	R-OVARC1001092	8970
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	OVARC1001129	F-OVARC1001129	3975	R-OVARC1001129	8974
5	OVARC1001154	F-OVARC1001154	3976		
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	OVARC1001162	F-OVARC1001162	3978	R-OVARC1001162	8976
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	OVARC1001243	F-OVARC1001243	3990	R-OVARC1001243	8986
20	OVARC1001244	F-OVARC1001244	3991		
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	OVARC1001268	F-OVARC1001268	3993	R-OVARC1001268	8988
	OVARC1001270	F-OVARC1001270	3994	R-OVARC1001270	8989
	OVARC1001271	F-OVARC1001271	3995	R-OVARC1001271	8990
25	OVARC1001282	F-OVARC1001282	3996	R-OVARC1001282	8991
	OVARC1001296	F-OVARC1001296	3997	R-OVARC1001296	8992
	OVARC1001306	F-OVARC1001306	3998	R-nnnnnnnnnnnnn	8993
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30	OVARC1001339	F-OVARC1001339	4001	R-OVARC1001339	8996
	OVARC1001341	F-OVARC1001341	4002	R-OVARC1001341	8997
	OVARC1001342	F-OVARC1001342	4003	R-OVARC1001342	8998
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	OVARC1001357	F-OVARC1001357	4005	R-OVARC1001357	9000
35	OVARC1001360	F-OVARC1001360	4006	R-OVARC1001360	9001
	OVARC1001369	F-OVARC1001369	4007	R-OVARC1001369	9002
	OVARC1001372	F-OVARC1001372	4008	R-OVARC1001372	9003
	OVARC1001376	F-OVARC1001376	4009	R-OVARC1001376	9004
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40	OVARC1001391	F-OVARC1001391	4011	R-OVARC1001391	9006
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10	PLACE3000119	F-PLACE3000119	5131	R-PLACE3000119	10080
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	PLACE3000155	F-PLACE3000155	5139	R-PLACE3000155	10086
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	PLACE4000326	F-PLACE4000326	5217	R-PLACE4000326	10159
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5	THYRO1000132	F-THYRO1000132	5264	R-THYRO1000132	10188
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	THYRO1000173	F-THYRO1000173	5267	R-THYRO1000173	10191
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	THYRO1000197	F-THYRO1000197	5271	R-THYRO1000197	10195
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	THYRO1000206	F-THYRO1000206	5273	R-THYRO1000206	10197
15	THYRO1000221	F-THYRO1000221	5274	R-THYRO1000221	10198
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	THYRO1000253	F-THYRO1000253	5277	R-THYRO1000253	10201
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	THYRO1000288	F-THYRO1000288	5280	R-THYRO1000288	10204
	THYRO1000320	F-THYRO1000320	5281	R-THYRO1000320	10205
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	THYRO1000401	F-THYRO1000401	5290	R-THYRO1000401	10214
	THYRO1000438	F-THYRO1000438	5291	R-THYRO1000438	10215
	THYRO1000452	F-THYRO1000452	5292	R-THYRO1000452	10216
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	THYRO1000488	F-THYRO1000488	5295	R-THYRO1000488	10219
	THYRO1000501	F-THYRO1000501	5296	R-THYRO1000501	10220
	THYRO1000502	F-THYRO1000502	5297	R-THYRO1000502	10221
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40	THYRO1000558	F-THYRO1000558	5299	R-THYRO1000558	10223
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45	THYRO1000602	F-THYRO1000602	5304	R-THYRO1000602	10228
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	THYRO1000658	F-THYRO1000658	5309	R-THYRO1000658	10233
5	THYRO1000662	F-THYRO1000662	5310	R-nnnnnnnnnnnnn	10234
	THYRO1000666	F-THYRO1000666	5311	R-THYRO1000666	10235
	THYRO1000676	F-THYRO1000676	5312	R-THYRO1000676	10236
	THYRO1000684	F-THYRO1000684	5313	R-THYRO1000684	10237
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10	THYRO1000712	F-THYRO1000712	5315	R-THYRO1000712	10239
	THYRO1000715	F-THYRO1000715	5316		
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	THYRO1000787	F-THYRO1000787	5322	R-THYRO1000787	10245
	THYRO1000793	F-THYRO1000793	5323	R-THYRO1000793	10246
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20	THYRO1000805	F-THYRO1000805	5325	R-THYRO1000805	10248
	THYRO1000815	F-THYRO1000815	5326	R-THYRO1000815	10249
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	THYRO1000974	F-THYRO1000974	5338	R-THYRO1000974	10261
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	THYRO1001405	F-THYRO1001405	5373	R-THYRO1001405	10295
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25	THYRO1001426	F-THYRO1001426	5376	R-THYRO1001426	10298
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30	THYRO1001534	F-THYRO1001534	5381	R-THYRO1001534	10303
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	THYRO1001541	F-THYRO1001541	5383	R-THYRO1001541	10305
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	THYRO1001661	F-THYRO1001661	5394	R-THYRO1001661	10316
	THYRO1001671	F-THYRO1001671	5395	R-THYRO1001671	10317
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	THYRO1001721	F-THYRO1001721	5399	R-THYRO1001721	10321
	THYRO1001738	F-THYRO1001738	5400	R-nnnnnnnnnnnnn	10322
	THYRO1001745	F-THYRO1001745	5401	R-THYRO1001745	10323
5	THYRO1001746	F-THYRO1001746	5402	R-THYRO1001746	10324
	THYRO1001772	F-THYRO1001772	5403	R-THYRO1001772	10325
	THYRO1001793	F-THYRO1001793	5404	R-THYRO1001793	10326
	THYRO1001809	F-THYRO1001809	5405	R-THYRO1001809	10327
	THYRO1001828	F-THYRO1001828	5406		
10	THYRO1001854	F-THYRO1001854	5407	R-THYRO1001854	10328
	THYRO1001895	F-THYRO1001895	5408	R-THYRO1001895	10329
	THYRO1001907	F-THYRO1001907	5409	R-THYRO1001907	10330
	VESEN1000122	F-VESEN1000122	5410	R-VESEN1000122	10331
	Y79AA1000013	F-Y79AA1000013	5411	R-Y79AA1000013	10332
15	Y79AA1000033	F-Y79AA1000033	5412	R-Y79AA1000033	10333
	Y79AA1000037	F-Y79AA1000037	5413	R-Y79AA1000037	10334
	Y79AA1000059	F-Y79AA1000059	5414	R-Y79AA1000059	10335
	Y79AA1000065	F-Y79AA1000065	5415	R-Y79AA1000065	10336
	Y79AA1000131	F-Y79AA1000131	5416	R-Y79AA1000131	10337
20	Y79AA1000181	F-Y79AA1000181	5417	R-Y79AA1000181	10338
	Y79AA1000202	F-Y79AA1000202	5418	R-Y79AA1000202	10339
	Y79AA1000214	F-Y79AA1000214	5419	R-Y79AA1000214	10340
	Y79AA1000230	F-Y79AA1000230	5420	R-Y79AA1000230	10341
	Y79AA1000231	F-Y79AA1000231	5421	R-Y79AA1000231	10342
25	Y79AA1000258	F-Y79AA1000258	5422	R-Y79AA1000258	10343
	Y79AA1000268	F-Y79AA1000268	5423	R-Y79AA1000268	10344
	Y79AA1000313	F-Y79AA1000313	5424	R-Y79AA1000313	10345
	Y79AA1000328	F-Y79AA1000328	5425	R-Y79AA1000328	10346
	Y79AA1000342	F-Y79AA1000342	5426	R-Y79AA1000342	10347
30	Y79AA1000346	F-Y79AA1000346	5427	R-Y79AA1000346	10348
	Y79AA1000349	F-Y79AA1000349	5428	R-Y79AA1000349	10349
	Y79AA1000355	F-Y79AA1000355	5429	R-Y79AA1000355	10350
	Y79AA1000368	F-Y79AA1000368	5430	R-Y79AA1000368	10351
	Y79AA1000405	F-Y79AA1000405	5431	R-Y79AA1000405	10352
35	Y79AA1000410	F-Y79AA1000410	5432	R-Y79AA1000410	10353
	Y79AA1000420	F-Y79AA1000420	5433	R-Y79AA1000420	10354
	Y79AA1000469	F-Y79AA1000469	5434	R-Y79AA1000469	10355
	Y79AA1000480	F-Y79AA1000480	5435	R-Y79AA1000480	10356
	Y79AA1000538	F-Y79AA1000538	5436	R-Y79AA1000538	10357
40	Y79AA1000539	F-Y79AA1000539	5437	R-Y79AA1000539	10358
	Y79AA1000540	F-Y79AA1000540	5438	R-Y79AA1000540	10359
	Y79AA1000560	F-Y79AA1000560	5439	R-Y79AA1000560	10360
	Y79AA1000574	F-Y79AA1000574	5440	R-Y79AA1000574	10361
	Y79AA1000589	F-Y79AA1000589	5441		
45	Y79AA1000627	F-Y79AA1000627	5442	R-Y79AA1000627	10362
	Y79AA1000705	F-Y79AA1000705	5443	R-Y79AA1000705	10363

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	Y79AA1000734	F-Y79AA1000734	5444	R-Y79AA1000734	10364
	Y79AA1000748	F-Y79AA1000748	5445	R-Y79AA1000748	10365
	Y79AA1000752	F-Y79AA1000752	5446	R-Y79AA1000752	10366
	Y79AA1000774	F-Y79AA1000774	5447	R-Y79AA1000774	10367
5	Y79AA1000782	F-Y79AA1000782	5448	R-Y79AA1000782	10368
	Y79AA1000784	F-Y79AA1000784	5449	R-Y79AA1000784	10369
	Y79AA1000794	F-Y79AA1000794	5450	R-Y79AA1000794	10370
	Y79AA1000800	F-Y79AA1000800	5451	R-Y79AA1000800	10371
	Y79AA1000802	F-Y79AA1000802	5452	R-nnnnnnnnnnnnn	10372
10	Y79AA1000805	F-Y79AA1000805	5453	R-Y79AA1000805	10373
	Y79AA1000824	F-Y79AA1000824	5454	R-Y79AA1000824	10374
	Y79AA1000827	F-Y79AA1000827	5455	R-Y79AA1000827	10375
	Y79AA1000833	F-Y79AA1000833	5456		
	Y79AA1000850	F-Y79AA1000850	5457	R-Y79AA1000850	10376
15	Y79AA1000962	F-Y79AA1000962	5458	R-Y79AA1000962	10377
	Y79AA1000966	F-Y79AA1000966	5459		
	Y79AA1000968	F-Y79AA1000968	5460	R-Y79AA1000968	10378
	Y79AA1000969	F-Y79AA1000969	5461	R-Y79AA1000969	10379
	Y79AA1000976	F-Y79AA1000976	5462	R-Y79AA1000976	10380
20	Y79AA1000985	F-Y79AA1000985	5463	R-Y79AA1000985	10381
	Y79AA1001023	F-Y79AA1001023	5464	R-Y79AA1001023	10382
	Y79AA1001041	F-Y79AA1001041	5465	R-Y79AA1001041	10383
	Y79AA1001048	F-Y79AA1001048	5466	R-Y79AA1001048	10384
	Y79AA1001061	F-Y79AA1001061	5467	R-Y79AA1001061	10385
25	Y79AA1001068	F-Y79AA1001068	5468	R-Y79AA1001068	10386
	Y79AA1001077	F-Y79AA1001077	5469	R-Y79AA1001077	10387
	Y79AA1001078	F-Y79AA1001078	5470	R-Y79AA1001078	10388
	Y79AA1001105	F-Y79AA1001105	5471	R-Y79AA1001105	10389
	Y79AA1001145	F-Y79AA1001145	5472	R-Y79AA1001145	10390
30	Y79AA1001167	F-Y79AA1001167	5473	R-Y79AA1001167	10391
	Y79AA1001177	F-Y79AA1001177	5474	R-Y79AA1001177	10392
	Y79AA1001185	F-Y79AA1001185	5475	R-Y79AA1001185	10393
	Y79AA1001211	F-Y79AA1001211	5476	R-Y79AA1001211	10394
	Y79AA1001216	F-Y79AA1001216	5477	R-Y79AA1001216	10395
35	Y79AA1001228	F-Y79AA1001228	5478	R-Y79AA1001228	10396
	Y79AA1001233	F-Y79AA1001233	5479	R-Y79AA1001233	10397
	Y79AA1001236	F-Y79AA1001236	5480	R-Y79AA1001236	10398
	Y79AA1001281	F-Y79AA1001281	5481	R-Y79AA1001281	10399
	Y79AA1001299	F-Y79AA1001299	5482	R-Y79AA1001299	10400
40	Y79AA1001312	F-Y79AA1001312	5483	R-Y79AA1001312	10401
	Y79AA1001323	F-Y79AA1001323	5484	R-Y79AA1001323	10402
	Y79AA1001384	F-Y79AA1001384	5485	R-Y79AA1001384	10403
	Y79AA1001391	F-Y79AA1001391	5486	R-Y79AA1001391	10404
	Y79AA1001394	F-Y79AA1001394	5487	R-Y79AA1001394	10405
45	Y79AA1001402	F-Y79AA1001402	5488	R-Y79AA1001402	10406
	Y79AA1001493	F-Y79AA1001493	5489	R-Y79AA1001493	10407

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	Y79AA1001511	F-Y79AA1001511	5490	R-Y79AA1001511	10408
	Y79AA1001533	F-Y79AA1001533	5491	R-Y79AA1001533	10409
	Y79AA1001541	F-Y79AA1001541	5492	R-nnnnnnnnnnnnn	10410
	Y79AA1001548	F-Y79AA1001548	5493	R-Y79AA1001548	10411
5	Y79AA1001555	F-Y79AA1001555	5494	R-Y79AA1001555	10412
	Y79AA1001581	F-Y79AA1001581	5495		
	Y79AA1001585	F-Y79AA1001585	5496	R-Y79AA1001585	10413
	Y79AA1001594	F-Y79AA1001594	5497	R-Y79AA1001594	10414
	Y79AA1001603	F-Y79AA1001603	5498	R-Y79AA1001603	10415
10	Y79AA1001613	F-Y79AA1001613	5499	R-Y79AA1001613	10416
	Y79AA1001647	F-Y79AA1001647	5500	R-Y79AA1001647	10417
	Y79AA1001665	F-Y79AA1001665	5501	R-Y79AA1001665	10418
	Y79AA1001679	F-Y79AA1001679	5502	R-Y79AA1001679	10419
	Y79AA1001692	F-Y79AA1001692	5503	R-nnnnnnnnnnnnn	10420
15	Y79AA1001696	F-Y79AA1001696	5504	R-Y79AA1001696	10421
	Y79AA1001705	F-Y79AA1001705	5505	R-Y79AA1001705	10422
	Y79AA1001711	F-Y79AA1001711	5506	R-Y79AA1001711	10423
	Y79AA1001781	F-Y79AA1001781	5507	R-Y79AA1001781	10424
	Y79AA1001805	F-Y79AA1001805	5508	R-nnnnnnnnnnnnn	10425
20	Y79AA1001827	F-Y79AA1001827	5509	R-Y79AA1001827	10426
	Y79AA1001846	F-Y79AA1001846	5510	R-Y79AA1001846	10427
	Y79AA1001848	F-Y79AA1001848	5511	R-Y79AA1001848	10428
	Y79AA1001866	F-Y79AA1001866	5512	R-Y79AA1001866	10429
	Y79AA1001874	F-Y79AA1001874	5513	R-Y79AA1001874	10430
25	Y79AA1001875	F-Y79AA1001875	5514	R-Y79AA1001875	10431
	Y79AA1001923	F-Y79AA1001923	5515	R-Y79AA1001923	10432
	Y79AA1001963	F-Y79AA1001963	5516		
	Y79AA1002027	F-Y79AA1002027	5517	R-Y79AA1002027	10433
	Y79AA1002083	F-Y79AA1002083	5518	R-Y79AA1002083	10434
30	Y79AA1002089	F-Y79AA1002089	5519	R-Y79AA1002089	10435
	Y79AA1002093	F-Y79AA1002093	5520	R-Y79AA1002093	10436
	Y79AA1002103	F-Y79AA1002103	5521	R-Y79AA1002103	10437
	Y79AA1002115	F-Y79AA1002115	5522	R-Y79AA1002115	10438
	Y79AA1002125	F-Y79AA1002125	5523	R-Y79AA1002125	10439
35	Y79AA1002139	F-Y79AA1002139	5524	R-Y79AA1002139	10440
	Y79AA1002204	F-Y79AA1002204	5525	R-Y79AA1002204	10441
	Y79AA1002208	F-Y79AA1002208	5526	R-nnnnnnnnnnnnn	10442
	Y79AA1002209	F-Y79AA1002209	5527	R-Y79AA1002209	10443
	Y79AA1002210	F-Y79AA1002210	5528	R-Y79AA1002210	10444
40	Y79AA1002211	F-Y79AA1002211	5529	R-Y79AA1002211	10445
	Y79AA1002220	F-Y79AA1002220	5530	R-Y79AA1002220	10446
	Y79AA1002229	F-Y79AA1002229	5531	R-Y79AA1002229	10447
	Y79AA1002234	F-Y79AA1002234	5532	R-Y79AA1002234	10448
	Y79AA1002246	F-Y79AA1002246	5533	R-Y79AA1002246	10449
45	Y79AA1002258	F-Y79AA1002258	5534	R-Y79AA1002258	10450
	Y79AA1002298	F-Y79AA1002298	5535	R-Y79AA1002298	10451

	Y79AA1002307	F-Y79AA1002307	5536	R-Y79AA1002307	10452
	Y79AA1002311	F-Y79AA1002311	5537	R-Y79AA1002311	10453
	Y79AA1002351	F-Y79AA1002351	5538	R-Y79AA1002351	10454
	Y79AA1002361	F-Y79AA1002361	5539	R-Y79AA1002361	10455
5	Y79AA1002399	F-Y79AA1002399	5540	R-Y79AA1002399	10456
	Y79AA1002407	F-Y79AA1002407	5541	R-Y79AA1002407	10457
	Y79AA1002416	F-Y79AA1002416	5542	R-Y79AA1002416	10458
	Y79AA1002431	F-Y79AA1002431	5543	R-Y79AA1002431	10459
	Y79AA1002433	F-Y79AA1002433	5544	R-nnnnnnnnnnnnn	10460
10	Y79AA1002472	F-Y79AA1002472	5545	R-Y79AA1002472	10461
	Y79AA1002482	F-Y79AA1002482	5546	R-Y79AA1002482	10462
	Y79AA1002487	F-Y79AA1002487	5547	R-Y79AA1002487	10463

Table 2

	name of clone	name of 5'-end sequence	SEQ ID of 5'-end sequence	name of 3'-end sequence	SEQ ID of 3'-end sequence
	HEMBA1000497	F-HEMBA1000497	16111	R-HEMBA1000497	16165
	HEMBA1001750	F-HEMBA1001750	16112	R-HEMBA1001750	16166
20	HEMBA1003854	F-HEMBA1003854	16113	R-HEMBA1003854	16167
	HEMBA1004193	F-HEMBA1004193	16114	R-HEMBA1004193	16168
	HEMBA1004860	F-HEMBA1004860	16115	R-HEMBA1004860	16169
	HEMBA1005572	F-HEMBA1005572	16116	R-HEMBA1005572	16170
	HEMBA1006038	F-HEMBA1006038	16117	R-HEMBA1006038	16171
25	HEMBA1006092	F-HEMBA1006092	16118	R-HEMBA1006092	16172
	HEMBA1006406	F-HEMBA1006406	16119	R-HEMBA1006406	16173
	HEMBA1006650	F-HEMBA1006650	16120	R-HEMBA1006650	16174
	HEMBA1006812	F-HEMBA1006812	16121	R-HEMBA1006812	16175
	HEMBA100672	F-HEMBA100672	16122	R-HEMBA100672	16176
30	HEMBA1001197	F-HEMBA1001197	16123	R-HEMBA1001197	16177
	HEMBA1001871	F-HEMBA1001871	16124	R-HEMBA1001871	16178
	MAMMA1001252	F-MAMMA1001252	16125	R-MAMMA1001252	16179
	MAMMA1002094	F-MAMMA1002094	16126	R-MAMMA1002094	16180
	NT2RM4000634	F-NT2RM4000634	16127	R-NT2RM4000634	16181
35	NT2RM4000657	F-NT2RM4000657	16128	R-NT2RM4000657	16182
	NT2RM4000783	F-NT2RM4000783	16129	R-NT2RM4000783	16183
	NT2RM4000857	F-NT2RM4000857	16130	R-NT2RM4000857	16184
	NT2RM4001178	F-NT2RM4001178	16131	R-NT2RM4001178	16185
	NT2RM4002420	F-NT2RM4002420	16132	R-NT2RM4002420	16186
40	NT2RP2000198	F-NT2RP2000198	16133	R-NT2RP2000198	16187
	NT2RP2000551	F-NT2RP2000551	16134	R-NT2RP2000551	16188
	NT2RP2000660	F-NT2RP2000660	16135	R-NT2RP2000660	16189

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	NT2RP2001214	F-NT2RP2001214	16136	R-NT2RP2001214	16190
	NT2RP2001460	F-NT2RP2001460	16137	R-NT2RP2001460	16191
	NT2RP2001756	F-NT2RP2001756	16138	R-NT2RP2001756	16192
	NT2RP2002056	F-NT2RP2002056	16139	R-NT2RP2002056	16193
5	NT2RP2002677	F-NT2RP2002677	16140	R-NT2RP2002677	16194
	NT2RP2002755	F-NT2RP2002755	16141	R-NT2RP2002755	16195
	NT2RP2002843	F-NT2RP2002843	16142	R-NT2RP2002843	16196
	NT2RP2003101	F-NT2RP2003101	16143	R-NT2RP2003101	16197
	NT2RP2003799	F-NT2RP2003799	16144	R-NT2RP2003799	16198
10	NT2RP2004095	F-NT2RP2004095	16145	R-NT2RP2004095	16199
	NT2RP2004732	F-NT2RP2004732	16146	R-NT2RP2004732	16200
	NT2RP2004920	F-NT2RP2004920	16147	R-NT2RP2004920	16201
	NT2RP2005454	F-NT2RP2005454	16148	R-NT2RP2005454	16202
	NT2RP2005776	F-NT2RP2005776	16149	R-NT2RP2005776	16203
15	NT2RP2005806	F-NT2RP2005806	16150	R-NT2RP2005806	16204
	NT2RP2005882	F-NT2RP2005882	16151	R-NT2RP2005882	16205
	NT2RP3001282	F-NT2RP3001282	16152	R-NT2RP3001282	16206
	NT2RP3001723	F-NT2RP3001723	16153	R-NT2RP3001723	16207
	NT2RP3002099	F-NT2RP3002099	16154	R-NT2RP3002099	16208
20	NT2RP3003155	F-NT2RP3003155	16155	R-NT2RP3003155	16209
	NT2RP3004028	F-NT2RP3004028	16156	R-NT2RP3004028	16210
	OVARC1000008	F-OVARC1000008	16157	R-OVARC1000008	16211
	OVARC1000724	F-OVARC1000724	16158	R-OVARC1000724	16212
	OVARC1000751	F-OVARC1000751	16159	R-OVARC1000751	16213
25	OVARC1001029	F-OVARC1001029	16160	R-OVARC1001029	16214
	PLACE1000814	F-PLACE1000814	16161	R-PLACE1000814	16215
	PLACE1003030	F-PLACE1003030	16162	R-PLACE1003030	16216
	PLACE1005549	F-PLACE1005549	16163	R-PLACE1005549	16217
	PLACE1007218	F-PLACE1007218	16164	R-PLACE1007218	16218

30 Furthermore, the present invention relates to the use of the above primers, as described below.

(4) A polynucleotide which can be synthesized with the primer set of (2) or (3).

(5) A polynucleotide comprising a coding region in the polynucleotide of (4).

(6) A substantially pure protein encoded by polynucleotide of (4).

35 (7) A partial peptide of the protein of (6).

In addition, the present invention comprises a polynucleotide described below and a protein encoded by the polynucleotide.

(8) An isolated polynucleotide selected from the group consisting of

40 (a) a polynucleotide comprising a coding region of the nucleotide sequence set forth in any one of the SEQ ID NOs in Tables 350 and 351;

(b) a polynucleotide comprising a nucleotide sequence encoding a protein comprising the amino acid sequence set forth in any one of the SEQ ID NOs in Tables 350 and 351;

45 (c) a polynucleotide comprising a nucleotide sequence encoding a protein comprising an amino acid sequence selected from the amino acid sequences set forth in the SEQ ID NOs in Tables 350 and 351, in which one or more amino acids are substituted, deleted, inserted, and/or added, wherein said protein is functionally equivalent to the protein comprising said amino acid sequence selected from the amino acid sequences set forth in the SEQ ID NOs in Tables 350 and

351;

(d) a polynucleotide that hybridizes with a polynucleotide comprising a nucleotide sequence selected from the nucleotide sequences set forth in the SEQ ID NOs in Tables 350 and 351, and that comprises a nucleotide sequence encoding a protein functionally equivalent to the protein encoded by the nucleotide sequence selected from the nucleotide sequences set forth in the SEQ ID NOs in Tables 350 and 351;

(e) a polynucleotide comprising a nucleotide sequence encoding a partial amino acid sequence of a protein encoded by the polynucleotide of (a) to (d);

(f) a polynucleotide comprising a nucleotide sequence with at least 70% identity to the nucleotide sequence set forth in any one of the SEQ ID NOs in Tables 350 and 351.

(9). A substantially pure protein encoded by the polynucleotide of (8).

(10) An antibody against the protein or peptide of any one of (6), (7), and (9).

(11) A vector comprising the polynucleotide of (5) or (8).

(12) A transformant carrying the polynucleotide of (5) or (8), or the vector of (11).

(13) A transformant expressively carrying the polynucleotide of (5) or (8), or the vector of (11).

(14) A method for producing the protein or peptide of any one of (6), (7), and (9), comprising culturing the transformant of (13) and recovering the expression product.

(15) An oligonucleotide comprising the nucleotide sequence set forth in any one of the SEQ ID NOs in Tables 350 and 351 or the nucleotide sequence complementary to the complementary strand thereof, wherein said oligonucleotide comprises 15 nucleotides or more.

(16) Use of the oligonucleotide of (15) as a primer for synthesizing a polynucleotide.

(17) Use of the oligonucleotide of (15) as a probe for detecting a gene.

(18) An antisense polynucleotide against the polynucleotide of (8), or the portion thereof.

(19) A method for synthesizing a polynucleotide, the method comprising:

a) synthesizing a complementary strand using a cDNA library as a template, and using the primer set of (2) or (3), or the primer of (16); and

b) recovering the synthesized product.

(20) The method of (19), wherein the cDNA library is obtainable by oligo-capping method.

(21) The method of (19), wherein the complementary strand is obtainable by PCR.

(22) A method for detecting the polynucleotide of (8), the method comprising:

a) incubating a target polynucleotide with the oligonucleotide of (15) under the conditions where hybridization occurs, and

b) detecting the hybridization of the target polynucleotide with the oligonucleotide of (15).

(23) A database of polynucleotides and/or proteins, the database comprising information on at least one sequence selected from the nucleotide sequences set forth in the SEQ ID NOs in Tables 350 and 351 and/or the amino acid sequences set forth in the SEQ ID NOs in Tables 350 and 351, or a medium on which the database is stored.

Any patents, patent applications, and publications cited herein are incorporated by reference.

BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1 shows the restriction maps of vectors pME18SFL3 and pUC19FL3.

Figure 2 shows the reproducibility of gene expression analysis. The respective intensities of gene expression observed in independent set of experiments are plotted in the vertical axis as well as in the horizontal axis.

Figure 3 shows the detection limit in gene expression analysis. The intensity of expression is shown in the vertical axis and the concentration (μ g/ml) of probe used is shown in the horizontal axis.

DETAILED DESCRIPTION OF THE INVENTION

Herein, "polynucleotide" is defined as a molecule in which multiple nucleotides are

polymerized. There are no limitations in the number of the polymerized nucleotides. In case that the polymer contains relatively low number of nucleotides, it is also described as an "oligonucleotide". The polynucleotide or the oligonucleotide of the present invention can be a natural or chemically synthesized product. Alternatively, it can be synthesized using a template DNA by an enzymatic reaction such as PCR.

All the cDNA provided by the invention are full-length cDNA. Herein, a "full-length cDNA" is defined as a cDNA which contains both ATG codon (the translation start site) and the stop codon. Accordingly, the untranslated regions, which are originally found in the upstream or downstream of the protein coding region in natural mRNA, may or may not be contained.

An "isolated polynucleotide" is a polynucleotide the structure of which is not identical to that of any naturally occurring nucleic acid or to that of any fragment of a naturally occurring genomic nucleic acid spanning more than three separate genes. The term therefore covers, for example,

(a) a DNA which has the sequence of part of a naturally occurring genomic DNA molecule but is not flanked by both of the coding sequences that flank that part of the molecule in the genome of the organism in which it naturally occurs;

(b) a nucleic acid incorporated into a vector or into the genomic DNA of a prokaryote or eukaryote in a manner such that the resulting molecule is not identical to any naturally occurring vector or genomic DNA;

(c) a separate molecule such as a cDNA, a genomic fragment, a fragment produced by polymerase chain reaction (PCR), or a restriction fragment; and

(d) a recombinant nucleotide sequence that is part of a hybrid gene, i.e., a gene encoding a fusion protein. Specifically excluded from this definition are nucleic acids present in mixtures of different (i) DNA molecules, (ii) transfected cells, or (iii) cell clones: e.g., as these occur in a DNA library such as a cDNA or genomic DNA library.

The term "substantially pure" as used herein in reference to a given polypeptide means that the protein or polypeptide is substantially free from other biological macromolecules. The substantially pure protein or polypeptide is at least 75% (e.g., at least 80, 85, 95, or 99%) pure by dry weight. Purity can be measured by any appropriate standard method, for example, by column chromatography, polyacrylamide gel electrophoresis, or HPLC analysis.

All the clones (5602 clones) of the present invention are novel and encode the full-length proteins. All the clones were prepared by oligo capping method, which can achieve cDNA cloning with high fullness ratio. The cDNA clones were selected by using ATGp1 score as an index of the fullness ratio at the 5'-end, based on the sequence features of the 5'-end sequences. Selection was further carried out by searching GenBank database for EST sequences homologous to 5'-end sequence of each clone by BLAST [S.F. Altschul, W. Gish, W. Miller, E.W. Myers & D.L. Lipman J. Mol. Biol., 215:403-410 (1990); W. Gish, & D.J. States, Nature Genet., 3:266-272 (1993)] and by considering the number of matching (identical) EST sequences or the number of continuous amino acids in the 5'-end sequence initiated from the initiation codon.

Moreover, the clones were turn out to be not identical to any of the known human mRNA (namely novel) by homology search using the 5'-end sequence.

The primers of the present invention, which are used for synthesizing full-length cDNA, are selected from the group comprising SEQ ID NO: 1-5547 (5'-primer), or SEQ ID NO: 5548-10463 (3'-primer). Further, the primers of the present invention, which are used for synthesizing full-length cDNA, are selected from SEQ ID NO: 16111-16164 (5'-primer), or SEQ ID NO: 16165-16218 (3'-primer). Some of the nucleotides include a known EST as its part. However, the primers of the present invention are novel in terms that the primers enable to synthesize full-length cDNA. Because the known ESTs lack important information on what part of cDNA the ESTs correspond to, it is impossible to design primers on the basis of the ESTs.

All the full-length cDNA of the present invention can be synthesized using a primer set comprising the nucleotide sequences selected from both the 5'-and 3'-end sequences, or a set comprising a primer based on the 5'-end sequence and an oligo-dT primer, by a method such as PCR (Current protocols in Molecular Biology (1987) Ausubel et al. edit, John Wiley & Sons, Section 6.1-6.4).

Specifically, PCR can be performed using an oligonucleotide that has 15 nucleotides longer, and specifically hybridizes with the complementary strand of the polynucleotide that contains the nucleotide sequence selected from the 5'-end sequences shown in Table 1 and 2 (SEQ ID NO: 1-5547, or SEQ ID NO: 16111-16164), and an oligo-dT primer as a 5'-, and 3'-primer, respectively. The length of the primers is usually 15-100 bp, and favorably between 15-35 bp. In case of LA PCR, which is described below, the primer length of 25-35 bp may provide a good result.

A method to design a primer that enables a specific amplification based on the given nucleotide sequence is known to those skilled in the art (Current Protocols in Molecular Biology, Ausubel et al. edit, (1987) John Wiley & Sons, Section 6.1-6.4). In designing a primer based on the 5'-end sequence, the primer is designed so as that, in principle, the amplification products will include the translation start site. Accordingly, in case that a given 5'-end nucleotide sequence is the 5'- untranslated region (5'UTR), any part of the sequence can be used as a 5'-primer as far as the specificity toward the target cDNA is insured. The translation start site can be predicted using a known method such as the ATGpr as described below.

When synthesizing a polynucleotide, the target nucleotide sequence to be amplified can extend to several thousand bp in some cDNA. However, it is possible to amplify such a long nucleotides by using such as LA PCR (Long and Accurate PCR). It is advantageous to use LA PCR when synthesizing long DNA. In LA PCR, in which a special DNA polymerase having 3' → 5' exonuclease activity is used, misincorporated nucleotides can be removed. Accordingly, accurate synthesis of the complementary strand can be achieved even with a long nucleotide sequence. By using LA PCR, it is reported that amplification of a nucleotide with 20 kb longer can be achieved under desirable condition (Takeshi Hayashi (1996) Jikken-Igaku Bessatsu, "Advanced Technologies in PCR" Youdo-sha).

A template DNA for synthesizing the cDNA of the present invention can be obtained by using cDNA libraries that are prepared by various methods. The full-length cDNA clones obtained here are those with high fullness ratio, which were obtained using a combination of (1) a method to prepare a full-length-enriched cDNA library using the oligo-capping method, and (2) an estimation system for fullness using the 5'-end sequence (selection based on the estimation by the ATGpr after removing clones that are not-full-length compared to the ESTs). However, it is possible to easily obtain a full-length cDNA by using the primers that are provided by the present invention, not by the above described specialized method.

The problem with the cDNA libraries prepared by the known methods or commercially available is that mRNA contained in the libraries has very low fullness ratio. Thus, it is difficult to screen full-length cDNA clone directly from the library using ordinary cloning methods. The present invention has revealed a primer that is capable of synthesizing a full-length cDNA. If provided with primers, it is possible to synthesize a target full-length cDNA by using enzymatic reactions such as PCR. In particular, a full-length-enriched cDNA library, synthesized by methods such as oligo-capping, is desirable to synthesize a full-length cDNA with more reliability.

The 5'-end sequence of the full-length cDNA clones of the invention can be used to isolate the regulatory element of transcription including the promoter on the genome. By the spring of the year 2000, a rough draft of the human genome (analysis of human genomic sequence with lower accuracy), which covers 90% of the genome, is planned to be accomplished, and by the year 2003, analysis of the entire human genomic sequence is going to be finished. However, it is hard to analyze with software the transcription start sites on the human genome, in which long introns exist. By contrast, it is easy to specify the transcription start site on the genomic sequence using the 5'-end sequence of the full-length cDNA clone, thus it is easy to obtain the genomic region involved in transcription regulation, which includes the promoter that

is contained in the upstream of the transcription start site.

The full-length cDNAs cloned in the present invention are classified into 13 groups, based on the data such as ATGpr1 score, by which the fullness ratio can be evaluated. Specifically, the 13 groups consist of; the below-mentioned groups (1)-(3), containing 3690 clones (Table 9), and the group (12), containing 3 clones, wherein ATGpr1 (score defined in the ATGpr program) is higher than 0.3; and the below-mentioned groups (4)-(11), containing 1857 clones (Table 10), and the group (13), containing 52 clones, wherein, although ATGpr1 is 0.3 or less, the clones are judged to be full-length from various viewpoints. Names of the clones belonging to the groups (1)-(13) are as indicated in Examples or below.

(1) 1516 clones

Among the 3690 clones that have the maximal ATGpr1 score higher than 0.3, 1516 clones are novel full-length clones, in which at least either of the sequences of the 5'- and 3'-ends, or both are not identical to those of any human EST.

(2) 377 clones

Among the 3690, 377 clones are novel full-length clones, in which the number of human EST having identical sequence at both 5'- and 3'-ends is 1 to 5.

(3) 1797 clones

Among the 3690, 1797 clones are novel full-length clones, in which the number of human EST having identical sequence at the 5'-end is not more than 20 (except the clones described above).

(4) 453 clones

Among the 1857 clones in which the maximal ATGpr1 score is 0.3 or less, the following 453 clones are estimated to be novel full-length clones since the clones have the maximal score 0.3 or more in the ATGpr2, and at least either of the sequences of their 5'- and 3'-ends, or both are not identical to those of any human EST. The ATGpr2 score is determined by using the ATGpr program with neglecting the information of the frequency of the six nucleotides contained within the sequence between the ATG codon and the stop codon (the maximal length is 300 nucleotides from the ATG codon) (Salamo A.A., Nishikawa T., and Swindells M.B. (1998) Bioinformatics, 14: 384-390; <http://www.hri.co.jp/atgpr/>). The ATGpr program for calculating the ATGpr2 score is described as the ATGpr2 program in the followings.

(5) 24 clones

Among the 1857 clones, 24 clones are estimated to be full-length since their maximal ATGpr2 scores are higher than 0.3, and also novel, though they have low scores in ATGpr1 program, in which the number of the human EST having identical sequence at both 5'- and 3'-ends is 1 to 5.

(6) 65 clones

Among the 1857 clones, 65 clones are estimated to be full-length since, though they have low scores in both programs, ATGpr1 and ATGpr2, the scores are the maximum in comparison to those of the other clones in the same cluster (at least two clones). The clones are also novel, if at least either of the sequences of the 5'- and 3'-ends, or both are not identical to those of any human EST.

(7) 32 clones

Among the 1857 clones, 32 clones are estimated to be full-length since, though they have low scores in both programs, ATGpr1 and ATGpr2, the scores are the maximum in comparison to

000240-69462960
09629469-072800

those of the other clones in the same cluster (at least two clones). The clones are also novel, if the number of the human EST having identical sequence at both 5'- and 3'-ends is 1 to 5.

(8) 36 clones

- 5 Among the 1857 clones, 36 clones are full-length, which were selected by assembling the sequences of the other clones or human EST, although they have low scores in both programs, ATGpr1 and ATGpr2. The clones are also novel, if at least either of the sequences of the 5'- and 3'-ends, or both are not identical to those of any human EST.

10 (9) 81 clones

- Among the 1857 clones, 81 clones are full-length, which were selected by assembling the sequences of the other clones or human EST, although they have low scores in both programs, ATGpr1 and ATGpr2. The clones are also novel, if the number of the human EST having identical sequence at the 5'-end is not more than 20 (other than the clones in which at least either of the sequences of the 5'- and 3'-ends, or both are not identical to those of any human EST).

(10) 938 clones

- 20 Among the 1857 clones, 938 clones are estimated to be full-length according to the fullness ratio shown in Table 4, although they have low scores in both programs, ATGpr1 and ATGpr2. The clones are also novel, if at least the sequence of the 5'-end is not identical to those of any human EST.

(11) 228 clones

- 25 Among the 1857 clones, 228 clones are estimated to be full-length according to the fullness ratio shown in Table 7, although they have low scores in both programs, ATGpr1 and ATGpr2. The clones are also novel, if at least the sequence of the 3'-end is not identical to those of any human EST.

(12) 3 clones

- 30 Three clones, HEMBA1006812, HEMBB1001871, and NT2RP3001282, whose maximal ATGpr1 values are higher than 0.3, are full-length and novel clones whose 5'-end sequences presumably contain a coding region which is initiated with ATG codon and which encodes 100 amino acids or more.

35 (13) 52 clones

- The following 52 clones, which have maximal ATGpr1 values of 0.3 or less, are full-length with the fullness ratios shown in Table 4 although the fullness ratios are low:
 HEMBA1000497, HEMBA1001750, HEMBA1003854, HEMBA1004193, HEMBA1004860,
 HEMBA1005572, HEMBA1006038, HEMBA1006092, HEMBA1006406, HEMBA1006650,
 40 HEMBB1000672, HEMBB1001197, MAMMA1001252, MAMMA1002094, NT2RM4000634,
 NT2RM4000657, NT2RM4000783, NT2RM4000857, NT2RM4001178, NT2RM4002420,
 NT2RP2000198, NT2RP2000551, NT2RP2000660, NT2RP2001214, NT2RP2001460,
 NT2RP2001756, NT2RP2002056, NT2RP2002677, NT2RP2002755, NT2RP2002843,
 NT2RP2003101, NT2RP2003799, NT2RP2004095, NT2RP2004732, NT2RP2004920,
 45 NT2RP2005454, NT2RP2005776, NT2RP2005806, NT2RP2005882, NT2RP3001723,
 NT2RP3002099, NT2RP3003155, NT2RP3004028, OVARC1000008, OVARC1000724,
 OVARC1000751, OVARC1001029, PLACE1000814, PLACE1003030, PLACE1005549,
 PLACE1007218, NT2RP4002298.

- 50 Moreover, the clones are novel clones whose 5'-end sequences presumably contain a coding region which is initiated with ATG codon and which encodes 50 amino acids or more. Among them, the following 20 clones is predicted to contain a coding region with 100 amino acids or more and should encode proteins:

HEMBA1000497, HEMBA1003854, HEMBA1004193, NT2RM4000657, NT2RM4001178, NT2RP2001756, NT2RP2002677, NT2RP2002755, NT2RP2002843, NT2RP2004095, NT2RP2004920, NT2RP2005806, NT2RP3002099, NT2RP3003155, OVARC1000724, OVARC1001029, PLACE1000814, PLACE1003030, PLACE1005549, PLACE1007218.

5 The protein encoded by the polynucleotide of the invention can be prepared as a recombinant protein or as a natural protein. For example, the recombinant protein can be prepared by inserting the polynucleotide encoding the protein of the invention into a vector, introducing the vector into an appropriate host cell and purifying the protein expressed within the transformed
10 host cell, as described below. In contrast, the natural protein can be prepared, for example, by utilizing an affinity column to which an antibody against the protein of the invention (Current Protocols in Molecular Biology (1987) Ausubel et al. edit, John Wiley & Sons, Section 16.1-16.19) is attached. The antibody used for affinity purification may be either a polyclonal antibody, or a monoclonal antibody. Alternatively, in vitro translation (See, for example, "On
15 the fidelity of mRNA translation in the nuclease-treated rabbit reticulocyte lysate system." Dasso M.C., and Jackson R.J. (1989) Nucleic Acids Res. 17: 3129-3144) may be used for preparing the protein of the invention.

20 Proteins functionally equivalent to the proteins of the present invention can be prepared based on the activities, which were clarified in the above-mentioned manner, of the proteins of the present invention. Using the biological activity possessed by the protein of the invention as an index, it is possible to verify whether or not a particular protein is functionally equivalent to the protein of the invention by examining whether or not the protein has said activity.

25 Proteins functionally equivalent to the proteins of the present invention can be prepared by those skilled in the art, for example, by using a method for introducing mutations into an amino acid sequence of a protein (for example, site-directed mutagenesis (Current Protocols in Molecular Biology, edit, Ausubel et al., (1987) John Wiley & Sons, Section 8.1-8.5). Besides, such proteins can be generated by spontaneous mutations. The present invention comprises the proteins having one or more amino acids substitutions, deletions, insertions and/or additions in
30 the amino acid sequences of the proteins of the present invention (Tables 350 and 351), as far as the proteins have the equivalent functions to those of the proteins identified in the present Examples described later.

35 There are no limitations in the number and sites of amino acid mutations, as far as the proteins maintain the functions thereof. The number of mutations is typically 30% or less, or 20% or less, or 10% or less, preferably within 5% or less, or 3% or less of the total amino acids, more preferably within 2% or less or 1% or less of the total amino acids. From the viewpoint of maintaining the protein function, it is preferable that a substituted amino has a similar property to that of the original amino acid. For example, Ala, Val, Leu, Ile, Pro, Met, Phe and Trp are
40 assumed to have similar properties to one another because they are all classified into a group of non-polar amino acids. Similarly, substitution can be performed among non-charged amino acid such as Gly, Ser, Thr, Cys, Tyr, Asn, and Gln, acidic amino acids such as Asp and Glu, and basic amino acids such as Lys, Arg, and His.

45 In addition, proteins functionally equivalent to the proteins of the present invention can be isolated by using techniques of hybridization or gene amplification known to those skilled in the art. Specifically, using the hybridization technique (Current Protocols in Molecular Biology, edit, Ausubel et al., (1987) John Wiley & Sons, Section 6.3-6.4)), those skilled in the art can usually isolate a DNA highly homologous to the DNA encoding the protein identified in the present Example based on the identified nucleotide sequence (Tables 350 and 351) or a portion
50 thereof and obtain the functionally equivalent protein from the isolated DNA. The present invention include proteins encoded by the DNAs hybridizing with the DNAs encoding the proteins identified in the present Example, as far as the proteins are functionally equivalent to the

proteins identified in the present Example. Organisms from which the functionally equivalent proteins are isolated are illustrated by vertebrates such as human, mouse, rat, rabbit, pig and bovine, but are not limited to these animals.

Washing conditions of hybridization for the isolation of DNAs encoding the functionally equivalent proteins are usually "1 × SSC, 0.1% SDS, 37°C"; more stringent conditions are "0.5 × SSC, 0.1% SDS, 42°C"; and still more stringent conditions are "0.1 × SSC, 0.1% SDS, 65°C". Alternatively, the following conditions can be given as hybridization conditions of the present invention. Namely, conditions in which the hybridization is done at "6 × SSC, 40% Formamide, 25°C", and the washing at "1 × SSC, 55°C" can be given. More preferable conditions are those in which the hybridization is done at "6 × SSC, 40% Formamide, 37°C", and the washing at "0.2 × SSC, 55°C". Even more preferable are those in which the hybridization is done at "6 × SSC, 50% Formamide, 37°C", and the washing at "0.1 × SSC, 62°C". The more stringent the conditions of hybridization are, the more frequently the DNAs highly homologous to the probe sequence are isolated. Therefore, it is preferable to conduct hybridization under stringent conditions. Examples of stringent conditions in the present invention are, washing conditions of "0.5 × SSC, 0.1% SDS, 42°C", or alternatively, hybridization conditions of "6 × SSC, 40% Formamide, 37°C", and the washing at "0.2 × SSC, 55°C". However, the above-mentioned combinations of SSC, SDS and temperature conditions are indicated just as examples. Those skilled in the art can select the hybridization conditions with similar stringency to those mentioned above by properly combining the above-mentioned or other factors (for example, probe concentration, probe length and duration of hybridization reaction) that determines the stringency of hybridization.

The amino acid sequences of proteins isolated by using the hybridization techniques usually exhibit high homology to those of the proteins of the present invention, which are shown in Tables 350 and 351. The present invention encompasses a polynucleotide comprising a nucleotide sequence that has a high identity to the nucleotide sequence of claim 8 (a). Furthermore, the present invention encompasses a peptide, or protein comprising an amino acid sequence that has a high identity to the amino acid sequence encoded by the polynucleotide of claim 8 (b). The term "high identity" indicates sequence identity of at least 40% or more; preferably 60% or more; and more preferably 70% or more. Alternatively, more preferable is identity of 90% or more, or 93% or more, or 95% or more, furthermore, 97% or more, or 99% or more. The identity can be determined by using the BLAST search algorithm.

With the gene amplification technique (PCR) (Current Protocols in Molecular Biology, edit, Ausubel et al., (1987) John Wiley & Sons, Section 6.3-6.4)) using primers designed based on the nucleotide sequence (Tables 350 and 351) or a portion thereof identified in the present Example, it is possible to isolate a DNA fragment highly homologous to the polynucleotide sequence or a portion thereof and to obtain functionally equivalent protein to a particular protein identified in the present Example based on the isolated DNA fragment.

The "percent identity" of two amino acid sequences or of two nucleic acids is determined using the algorithm of Karlin and Altschul (Proc. Natl. Acad. Sci. USA 87:2264-2268, 1990), modified as in Karlin and Altschul (Proc. Natl. Acad. Sci. USA 90:5873-5877, 1993). Such an algorithm is incorporated into the BLASTN and BLASTX programs of Altschul et al. (J. Mol. Biol. 215:403-410, 1990). BLAST nucleotide searches are performed with the BLASTN program, score = 100, wordlength = 12. BLAST protein searches are performed with the BLASTX program, score = 50, wordlength = 3. When gaps exist between two sequences, Gapped BLAST is utilized as described in Altschul et al. (Nucleic Acids Res. 25:3389-3402, 1997). When utilizing BLAST and Gapped BLAST programs, the default parameters of the respective programs (e.g., BLASTX and BLASTN) are used. See <http://www.ncbi.nlm.nih.gov>.

The present invention also includes a partial peptide of the proteins of the invention. The partial peptide comprises a protein generated as a result that a signal peptide has been removed from a secretory protein. If the protein of the present invention has an activity as a receptor or a ligand, the partial peptide may function as a competitive inhibitor of the protein and may bind to the receptor (or ligand). In addition, the present invention comprises an antigen peptide for raising antibodies. For the peptides to be specific for the protein of the invention, the peptides comprise at least 7 amino acids, preferably 8 amino acids or more, more preferably 9 amino acids or more, and even more preferably 10 amino acids or more. The peptide can be used for preparing antibodies against the protein of the invention, or competitive inhibitors of them, and also screening for a receptor that binds to the protein of the invention. The partial peptides of the invention can be produced, for example, by genetic engineering methods, known methods for synthesizing peptides, or digesting the protein of the invention with an appropriate peptidase.

The present invention also relates to a vector into which the DNA of the invention is inserted. The vector of the invention is not limited as long as it contains the inserted DNA stably. For example, if *E. coli* is used as a host, vectors such as pBluescript vector (Stratagene) are preferable as a cloning vector. To produce the protein of the invention, expression vectors are especially useful. Any expression vector can be used as far as it is capable of expressing the protein *in vitro*, in *E. coli*, in cultured cells, or *in vivo*. For example, pBEST vector (Promega) is preferable for *in vitro* expression, pET vector (Invitrogen) for *E. coli*, pME18S-FL3 vector (GenBank Accession No. AB009864) for cultured cells, and pME18S vector (Mol. Cell. Biol. (1988) 8: 466-472) for *in vivo* expression. To insert the DNA of the invention, ligation utilizing restriction sites can be performed according to the standard method (Current Protocols in Molecular Biology (1987) Ausubel et al. edit, John Wiley & Sons, Section 11.4-11.11).

The present invention also relates to a transformant carrying the vector of the invention. Any cell can be used as a host into which the vector of the invention is inserted, and various kinds of host cells can be used depending on the purposes. For strong expression of the protein in eukaryotic cells, COS cells or CHO cells can be used, for example.

Introduction of the vector into host cells can be performed, for example, by calcium phosphate precipitation method, electroporation method (Current Protocols in Molecular Biology (1987) Ausubel et al. edit, John Wiley & Sons, Section 9.1-9.9), lipofectamine method (GIBCO-BRL), or microinjection method, etc.

The primer of the present invention can be used for synthesizing full-length cDNA, and also for the detection and/or diagnosis of the abnormality of the protein of the invention encoded by the full-length cDNA. For example, by utilizing polymerase chain reaction (genomic DNA-PCR, or RT-PCR) using the primer of the invention, DNA encoding the protein of the invention can be amplified. It is also possible to obtain the regulatory region of expression in the 5'-upstream by using PCR or hybridization since the transcription start site within the genomic sequence can be easily specified based on the 5'-end sequence of the full-length cDNA. The obtained genomic region can be used for detection and/or diagnosis of the abnormality of the sequence by RFLP analysis, SSCP, or direct sequencing.

Furthermore, the "polynucleotide having a length of at least 15 nucleotides, comprising a nucleotide sequence that is complementary to a polynucleotide comprising the nucleotide sequence set forth in any one of SEQ ID NOs in Tables 350 and 351, or its complementary strand" includes an antisense polynucleotide for suppressing the expression of the protein of the invention. To exert the antisense effect, the antisense polynucleotide has a length of at least 15 bp or more, for example, 50 bp or more, preferably 100 bp or more, and more preferably 500 bp or more, and has a length of usually 3000 bp or less and preferably 2000 bp or less. The antisense DNA can be used in the gene therapy of the diseases that are caused by the abnormality of the protein of the invention (abnormal function or abnormal expression). Said antisense DNA can be prepared, for example, by the phosphorothioate method ("Physicochemical properties of phosphorothioate oligodeoxynucleotides." Stein (1988) Nucleic Acids Res. 16: 3209-3221)

based on the nucleotide sequence of the DNA encoding the protein (for example, the DNA set forth in any one of SEQ ID NOs in Tables 350 and 351).

The polynucleotide or antisense DNA of the present invention can be used in gene therapy, for example, by administering it into a patient by the in vivo or ex vivo method with virus vectors such as retrovirus vectors, adenovirus vectors, and adeno-associated virus vectors, or non-virus vectors such as liposome.

The present invention also relates to antibodies that bind to the protein of the invention. There are no limitations in the form of the antibodies of the invention. They include polyclonal antibodies, monoclonal antibodies, or their portions that can bind to the protein of the invention. They also include antibodies of all classes. Furthermore, special antibodies such as humanized antibodies are also included.

The polyclonal antibody of the invention can be obtained according to the standard method by synthesizing an oligopeptide corresponding to the amino acid sequence and immunizing rabbits with the peptide (Current Protocols in Molecular Biology (1987) Ausubel et al. edit, John Wiley & Sons, Section 11.12-11.13). The monoclonal antibody of the invention can be obtained according to the standard method by purifying the protein expressed in *E. coli*, immunizing mice with the protein, and producing a hybridoma cell by fusing the spleen cells and myeloma cells (Current Protocols in Molecular Biology (1987) Ausubel et al. edit, John Wiley & Sons, Section 11.4-11.11).

The antibody binding to the protein of the present invention can be used for purification of the protein of the invention, and also for detection and/or diagnosis of the abnormalities of the expression and structure of the protein. Specifically, proteins can be extracted, for example, from tissues, blood, or cells, and the protein of the invention is detected by Western blotting, immunoprecipitation, or ELISA, etc. for the above purpose.

Furthermore, the antibody binding to the protein of the present invention can be utilized for treating the diseases that associates with the protein of the invention. If the antibodies are used for treating patients, human antibodies or humanized antibodies are preferable in terms of their low antigenicity. The human antibodies can be prepared by immunizing a mouse whose immune system is replaced with that of human ("Functional transplant of megabase human immunoglobulin loci recapitulates human antibody response in mice" Mendez M.J. et al. (1997) Nat. Genet. 15: 146-156). The humanized antibodies can be prepared by recombination of the hypervariable region of a monoclonal antibody (Methods in Enzymology (1991) 203: 99-121).

The cDNA of the present invention encodes the amino acid sequence of a protein which is predicted to have the function(s) described below based on the homology search of the GenBank and SwissProt. Specifically, for instance, as shown in EXAMPLES, searching a known gene or protein that is homologous to the partial sequence of the full-length cDNA of the invention (5602 clone) and referring the function of the gene and of the protein encoded by the gene make it possible to predict the function of the protein encoded by the cDNA of the invention. In this way, each of 1437 clones out of the 5602 full-length cDNA clones of the invention was predicted to encode a protein that was classified into one or more of the following categories.

- Secretory or membrane protein (261 clones)
- Glycoprotein-associated protein (113 clones)
- Signal transduction-associated protein (148 clones)
- Transcription-associated protein (233 clones)
- Disease-associated protein (437 clones)
- Enzyme or metabolism-associated protein (301 clones)
- Cell division- or cell proliferation-associated protein (74 clones)
- Cytoskeleton-associated protein (92 clones)
- RNA synthesis-associated protein (280 clones)
- Nuclear protein (352 clones)

Protein synthesis- or transport-associated protein (112 clones)

Cellular defense-associated protein (23 clones)

Development- or growth-associated protein (23 clones)

5 It is also possible to predict the protein function by looking into the amino acid sequence for the motifs such as the signal sequence, transmembrane region, nuclear translocation signal, glycosylation signal, phosphorylation site, Zinc finger motif, and SH3 domain. The programs, PSORT (Nakai K., and Kanehisa M. (1992) *Genomics* 14: 897-911), SOSUI (Hirokawa T. et al. (1998) *Bioinformatics* 14: 378-379) (Mitsui Information Developing Inc.), and MEMSAT (Jones D.T., Taylor W.R., and Thornton J.M. (1994) *Biochemistry* 33: 3038-3049) can be used to predict
10 the existence of the signal sequence or transmembrane region. Alternatively, a partial amino acid sequence of the protein is fused with another protein such as GFP, the fusion protein is transfected into cultured cells, and the localization is analyzed to predict the function of the original protein.

15 Based on the determined nucleotide sequences of the full-length cDNAs obtained in the present invention, it is possible to predict more detailed functions of the proteins encoded by the cDNA clones, for example, by searching the databases such as GenBank, Swiss-Prot and UniGene for homologies of the cDNAs; or by searching the amino acid sequences deduced from the full-length cDNAs for signal sequences by using software programs such as PSORT, for transmembrane regions by using software programs such as SOSUI or for motifs by using
20 software programs such as Pfam (<http://www.sanger.ac.uk/Software/Pfam/index.shtml>) and PROSITE (<http://www.expasy.ch/prosite/>). As a matter of course, the functions are often predictable by using partial sequence information (preferably 300 nucleotides or more) instead of the full-length nucleotide sequences. However, the result of the prediction by using partial
25 nucleotide sequence does not always agree with the result obtained by using full-length nucleotide sequence, and thus, it is needless to say that the prediction of function is preferably performed based on the full-length nucleotide sequences.

30 GenBank, Swiss-Prot and UniGene databases were searched for homologies of the full-length nucleotide sequences of the 4997 clones (see Example 18). The amino acid sequences deduced from the full-length nucleotide sequences were searched for functional domains by PSORT, SOSUI and Pfam. Prediction of functions of proteins encoded by the clones and the categorization thereof were performed based on these results obtained.

The following 798 clones were categorized into secretory and/or membrane proteins.

35 HEMBA1000356, HEMBA1000518, HEMBA1000531, HEMBA1000637, HEMBA1000719, HEMBA1000817, HEMBA1000822, HEMBA1000852, HEMBA1000870, HEMBA1000991, HEMBA1001052, HEMBA1001071, HEMBA1001085, HEMBA1001286, HEMBA1001351, HEMBA1001407, HEMBA1001446, HEMBA1001515, HEMBA1001557, HEMBA1001569, HEMBA1001661, HEMBA1001734, HEMBA1001746, HEMBA1001866, HEMBA1002125,
40 HEMBA1002150, HEMBA1002166, HEMBA1002417, HEMBA1002462, HEMBA1002475, HEMBA1002477, HEMBA1002486, HEMBA1002609, HEMBA1002659, HEMBA1002661, HEMBA1002780, HEMBA1002818, HEMBA1002876, HEMBA1002921, HEMBA1003071, HEMBA1003077, HEMBA1003079, HEMBA1003086, HEMBA1003096, HEMBA1003281, HEMBA1003286, HEMBA1003538, HEMBA1003711, HEMBA1003742, HEMBA1003803,
45 HEMBA1004055, HEMBA1004143, HEMBA1004146, HEMBA1004207, HEMBA1004341, HEMBA1004461, HEMBA1004577, HEMBA1004637, HEMBA1004752, HEMBA1004756, HEMBA1004850, HEMBA1004889, HEMBA1004923, HEMBA1004930, HEMBA1005029, HEMBA1005035, HEMBA1005050, HEMBA1005552, HEMBA1005576, HEMBA1005581, HEMBA1005588, HEMBA1005616, HEMBA1005699, HEMBA1005991, HEMBA1006036,
50 HEMBA1006038, HEMBA1006067, HEMBA1006173, HEMBA1006198, HEMBA1006293, HEMBA1006310, HEMBA1006492, HEMBA1006502, HEMBA1006583, HEMBA1006659, HEMBA1006758, HEMBA1006789, HEMBA1006921, HEMBA1006926, HEMBA1006976,

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 10 MAMMA1000472, MAMMA1000672, MAMMA1000684, MAMMA1000714,
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 20 MAMMA1003035, MAMMA1003089, MAMMA1003146, MAMMA1003150,
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 25 NT2RM1000882, NT2RM1000905, NT2RM1001008,
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 30 NT2RM2001648, NT2RM2001659, NT2RM2001671, NT2RM2001688, NT2RM2001698,
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 40 NT2RM4002493, NT2RM4002558, NT2RM4002565, NT2RM4002571, NT2RM4002594,
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 45 NT2RP1001546, NT2RP1001569, NT2RP2000032, NT2RP2000040, NT2RP2000056,
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 50 NT2RP2001366, NT2RP2001378, NT2RP2001576, NT2RP2001581, NT2RP2001597,
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 5 NT2RP2004194, NT2RP2004270, NT2RP2004300, NT2RP2004392, NT2RP2004655,
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 30 NT2RP4000560, NT2RP4000588, NT2RP4000713, NT2RP4000724, NT2RP4000817,
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 40 OVARC1000689, OVARC1000700, OVARC1000722, OVARC1000751, OVARC1000850,
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 5 PLACE1004149, PLACE1004197, PLACE1004203, PLACE1004258, PLACE1004270,
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 15 PLACE1007484, PLACE1007583, PLACE1007632, PLACE1007645, PLACE1007649,
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 20 PLACE1009338, PLACE1009368, PLACE1009493, PLACE1009639, PLACE1009659,
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 25 PLACE1011371, PLACE1011399, PLACE1011492, PLACE1011646, PLACE1011749,
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 PLACE2000438, PLACE2000458, PLACE2000477, PLACE3000020, PLACE3000218,
 30 PLACE3000226, PLACE3000242, PLACE3000244, PLACE3000339, PLACE3000373,
 PLACE3000399, PLACE3000406, PLACE3000413, PLACE3000455, PLACE4000052,
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 35 THYRO1000156, THYRO1000327, THYRO1000394, THYRO1000395, THYRO1000570,
 THYRO1000748, THYRO1000756, THYRO1000783, THYRO1001134, THYRO1001271,
 THYRO1001287, THYRO1001320, THYRO1001401, THYRO1001534, THYRO1001537,
 THYRO1001541, THYRO1001828, Y79AA1000258, Y79AA1000420, Y79AA1000469,
 Y79AA1000734, Y79AA1000800, Y79AA1000976, Y79AA1001023, Y79AA1001177,
 40 Y79AA1001384, Y79AA1001394, Y79AA1001603, Y79AA1001647, Y79AA1001846,
 Y79AA1001874, Y79AA1002139, Y79AA1002246, Y79AA1002351, Y79AA1002399,
 Y79AA1002416, MAMMA1002498, NT2RM4002287

The following 142 clones were categorized into glycoprotein-associated proteins.

45 HEMBA1000156, HEMBA1000518, HEMBA1000852, HEMBA1001071, HEMBA1001286,
 HEMBA1001661, HEMBA1001734, HEMBA1001866, HEMBA1003071, HEMBA1003077,
 HEMBA1003281, HEMBA1003538, HEMBA1003679, HEMBA1003866, HEMBA1005576,
 HEMBA1005581, HEMBA1005699, HEMBA1006038, HEMBA1006976, HEMBA1007301,
 HEMBB1000317, HEMBB1000915, HEMBB1001871, HEMBB1001872, HEMBB1002193,
 50 MAMMA1000672, MAMMA1000897, MAMMA1001030, MAMMA1001388,
 MAMMA1002329, MAMMA1002428, MAMMA1002573, MAMMA1003150,
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NT2RM2000490, NT2RM2001499, NT2RM2001659, NT2RM2001930, NT2RM4000820,
 NT2RM4000857, NT2RM4001810, NT2RM4001813, NT2RM4001987, NT2RM4002145,
 NT2RM4002189, NT2RM4002251, NT2RM4002460, NT2RM4002558, NT2RP1000677,
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 5 NT2RP2001295, NT2RP2001378, NT2RP2001597, NT2RP2001991, NT2RP2002025,
 NT2RP2002078, NT2RP2002385, NT2RP2004587, NT2RP2004732, NT2RP2005531,
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 NT2RP3003672, NT2RP3003701, NT2RP3003716, NT2RP3003914, NT2RP3004148,
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 10 NT2RP4001150, NT2RP4001372, NT2RP4001730, NT2RP4001822, NT2RP4001823,
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 OVARC1001506, OVARC1001713, OVARC1002127, PLACE1000213, PLACE1000401,
 PLACE1002437, PLACE1002583,
 PLACE1002722, PLACE1003045, PLACE1003238, PLACE1003258, PLACE1003493,
 15 PLACE1004197, PLACE1004793, PLACE1005953, PLACE1005955, PLACE1006157,
 PLACE1006239, PLACE1006368, PLACE1006534, PLACE1006754, PLACE1006956,
 PLACE1007416, PLACE1007632, PLACE1007649, PLACE1008643, PLACE1009094,
 PLACE1009992, PLACE1010231, PLACE1010662, PLACE1011371, PLACE2000034,
 PLACE2000373, PLACE2000398, PLACE2000399, PLACE2000438, PLACE2000458,
 20 PLACE3000339, PLACE4000063, PLACE4000230, PLACE4000522, PLACE4000548,
 PLACE4000581, THYRO1000327, THYRO1000756, THYRO1001287, Y79AA1001603,
 Y79AA1001874, MAMMA1002498

The following 140 clones were categorized into signal transduction-associated proteins.

25 HEMBA1000303, HEMBA1000369, HEMBA1000608, HEMBA1000657, HEMBA1000919,
 HEMBA1001019, HEMBA1001174, HEMBA1001822, HEMBA1001921, HEMBA1002139,
 HEMBA1002212, HEMBA1002341, HEMBA1002417, HEMBA1002768, HEMBA1003250,
 HEMBA1003291, HEMBA1003645, HEMBA1004286, HEMBA1005737, HEMBA1006130,
 HEMBA1006708, HEMBB1000083, HEMBB1000266, HEMBB1000632, HEMBB1000781,
 30 HEMBB1000831, HEMBB1002193, MAMMA1000173, MAMMA1001038,
 MAMMA1001198, MAMMA1002842, MAMMA1003057, NT2RM1000702, NT2RM1000772,
 NT2RM1001072, NT2RM2000030, NT2RM2000469, NT2RM2000612, NT2RM2001221,
 NT2RM2001345, NT2RM2002128, NT2RM4000229, NT2RM4000354, NT2RM4000611,
 NT2RM4000798, NT2RM4001411, NT2RM4001412, NT2RM4001629, NT2RM4001758,
 35 NT2RM4002013, NT2RM4002527, NT2RP1000018, NT2RP1000701, NT2RP1001294,
 NT2RP1001302, NT2RP2000668, NT2RP2001440, NT2RP2001560, NT2RP2002058,
 NT2RP2002193, NT2RP2002408, NT2RP2002710, NT2RP2002929, NT2RP2003164,
 NT2RP2003912, NT2RP2004232, NT2RP2004768, NT2RP2006071, NT2RP2006534,
 NT2RP3000759, NT2RP3000845, NT2RP3001646, NT2RP3001857, NT2RP3001938,
 40 NT2RP3002004, NT2RP3002785, NT2RP3002909, NT2RP3002988, NT2RP3003800,
 NT2RP3004189, NT2RP3004544, NT2RP4000147, NT2RP4000839, NT2RP4001122,
 NT2RP4001148, NT2RP4001336, NT2RP4001375, NT2RP4001644, NT2RP4001725,
 NT2RP4001849, NT2RP4001896, NT2RP4001927, NT2RP4002408, NT2RP5003477,
 OVARC1000013, OVARC1000437, OVARC1000556, OVARC1000649, OVARC1000945,
 45 OVARC1001200,
 OVARC1002182, PLACE1000977, PLACE1001387, PLACE1002493, PLACE1002591,
 PLACE1003190, PLACE1003353, PLACE1004128, PLACE1004302, PLACE1004937,
 PLACE1005243, PLACE1008000, PLACE1008244, PLACE1008650, PLACE1009468,
 PLACE1009596, PLACE1009708, PLACE1009845, PLACE1010926, PLACE1011041,
 50 PLACE2000164, PLACE2000371, PLACE3000145, PLACE3000350, THYRO1000072,
 THYRO1000748, THYRO1001120, Y79AA1000328, Y79AA1002431, HEMBA1001247,

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NT2RP3003311, PLACE1000972, PLACE1003723, PLACE1005327, PLACE3000124,

The following 321 clones were categorized into transcription -associated proteins.

- 5 HEMBA1000158, HEMBA1000201, HEMBA1000216, HEMBA1000555, HEMBA1000561,
HEMBA1000851, HEMBA1001077, HEMBA1001137, HEMBA1001405, HEMBA1001510,
HEMBA1001635, HEMBA1001804, HEMBA1001809, HEMBA1001819, HEMBA1001847,
HEMBA1001869, HEMBA1002035, HEMBA1002092, HEMBA1002177, HEMBA1002770,
HEMBA1002935, HEMBA1003408, HEMBA1003545, HEMBA1003568, HEMBA1003662,
- 10 HEMBA1003684, HEMBA1003760, HEMBA1003953, HEMBA1004097, HEMBA1004321,
HEMBA1004353, HEMBA1004389, HEMBA1004479, HEMBA1004758, HEMBA1004973,
HEMBA1005219, HEMBA1005359, HEMBA1005513, HEMBA1005528, HEMBA1005548,
HEMBA1005558, HEMBA1005931, HEMBA1006158, HEMBA1006248, HEMBA1006278,
HEMBA1006283, HEMBA1006347, HEMBA1006359, HEMBA1006559, HEMBA1006941,
- 15 HEMBB1000789, HEMBB1001011, HEMBB1001314, HEMBB1001482, HEMBB1001673,
HEMBB1001749, HEMBB1001839, HEMBB1001908, HEMBB1002134, HEMBB1002217,
HEMBB1002342, HEMBB1002607, MAMMA1000183, MAMMA1000388,
MAMMA1001105, MAMMA1001222, MAMMA1001260, MAMMA1001627,
MAMMA1001633, MAMMA1001743, MAMMA1001820, MAMMA1001837,
- 20 MAMMA1002617, MAMMA1002650, MAMMA1002937, NT2RM1000055, NT2RM1000086,
NT2RM1000746, NT2RM1000885, NT2RM1000894, NT2RM1001092, NT2RM2000013,
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The following 392 clones were categorized into disease-associated proteins.

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50 The following 427 clones presumably belong to enzymes and/or metabolism-associated proteins.

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The following 217 clones presumably belong to ATP- and/or GTP-binding proteins.

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 NT2RP3003301, NT2RP3003353, NT2RP3003589, NT2RP3003809, NT2RP3003876,
 NT2RP3004189, NT2RP3004428, NT2RP3004578, NT2RP4000290, NT2RP4000481,
 15 NT2RP4000518, NT2RP4000781, NT2RP4000839, NT2RP4000929, NT2RP4001041,
 NT2RP4001079, NT2RP4001375, NT2RP4001414, NT2RP4001592, NT2RP4001634,
 NT2RP4001644, NT2RP4001656, NT2RP4001896, NT2RP4002047, NT2RP4002058,
 NT2RP4002408, NT2RP5003477, OVARC1000013, OVARC1000304, OVARC1000556,
 OVARC1000771, OVARC1000800, OVARC1001068, OVARC1002138, PLACE1000040,
 20 PLACE1000588, PLACE1001104, PLACE1001739, PLACE1002433, PLACE1002437,
 PLACE1002714, PLACE1003394, PLACE1003521, PLACE1003915, PLACE1004902,
 PLACE1005243, PLACE1005305, PLACE1005549, PLACE1005739, PLACE1005921,
 PLACE1006119, PLACE1006196, PLACE1006552, PLACE1006956, PLACE1007409,
 PLACE1007697, PLACE1007946, PLACE1008244, PLACE1009404, PLACE1009476,
 25 PLACE1009596, PLACE1009908, PLACE1010134, PLACE1010720, PLACE1010896,
 PLACE1011109, PLACE1011114, PLACE1011310, PLACE1011922, PLACE2000014,
 PLACE2000039, PLACE2000274, PLACE2000404, PLACE2000427, PLACE3000350,
 PLACE4000009, PLACE4000014, PLACE4000326, SKNMC1000013, THYRO1000072,
 THYRO1001458, Y79AA1000833, Y79AA1000962, Y79AA1001394, Y79AA1001875,
 30 Y79AA1001963, Y79AA1002209,

The following 320 clones presumably belong to nuclear proteins.

HEMBA1000005, HEMBA1000158, HEMBA1000216, HEMBA1000561, HEMBA1000591,
 HEMBA1001088, HEMBA1001137, HEMBA1001405, HEMBA1001510, HEMBA1001579,
 35 HEMBA1001809, HEMBA1001819, HEMBA1001824, HEMBA1001847, HEMBA1001869,
 HEMBA1002177, HEMBA1002241, HEMBA1002495, HEMBA1002569, HEMBA1002935,
 HEMBA1002951, HEMBA1002999, HEMBA1003408, HEMBA1003545, HEMBA1003662,
 HEMBA1003684, HEMBA1003690, HEMBA1003760, HEMBA1004203, HEMBA1004321,
 HEMBA1004353, HEMBA1004479, HEMBA1004973, HEMBA1005219, HEMBA1005359,
 40 HEMBA1005558, HEMBA1005931, HEMBA1006278, HEMBA1006283, HEMBA1006359,
 HEMBA1006485, HEMBA1007087, HEMBB1000226, HEMBB1000789, HEMBB1001011,
 HEMBB1001056, HEMBB1001242, HEMBB1001482, HEMBB1001915, HEMBB1002134,
 HEMBB1002217, MAMMA1000183, MAMMA1000731, MAMMA1001105,
 MAMMA1001222, MAMMA1001260, MAMMA1001633, MAMMA1001743,
 45 MAMMA1001837, MAMMA1002617, MAMMA1002869, MAMMA1002937,
 MAMMA1003011, NT2RM1000086, NT2RM1000187, NT2RM1000666, NT2RM1000885,
 NT2RM1000894, NT2RM1001059, NT2RM1001092, NT2RM2000013, NT2RM2000588,
 NT2RM2000624, NT2RM2000735, NT2RM2000740, NT2RM2001105, NT2RM2001635,
 NT2RM2001670, NT2RM2001771, NT2RM2001823, NT2RM2001936, NT2RM2001989,
 50 NT2RM2002004, NT2RM2002088, NT2RM2002091, NT2RM4000024, NT2RM4000046,
 NT2RM4000104, NT2RM4000202, NT2RM4000215, NT2RM4000290, NT2RM4000531,

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NT2RM4000751, NT2RM4000996, NT2RM4001092, NT2RM4001140, NT2RM4001200,
 NT2RM4001483, NT2RM4001566, NT2RM4001592,
 NT2RM4001597, NT2RM4001783, NT2RM4001823, NT2RM4001828, NT2RM4001858,
 NT2RM4001979, NT2RP1000035, NT2RP1000111, NT2RP1000493, NT2RP1000574,
 5 NT2RP1000630, NT2RP1000902, NT2RP1000915, NT2RP1000958, NT2RP1000966,
 NT2RP1001013, NT2RP1001177, NT2RP2000008, NT2RP2000076, NT2RP2000126,
 NT2RP2000153, NT2RP2000161, NT2RP2000248, NT2RP2000258, NT2RP2000297,
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 NT2RP2001869, NT2RP2002079, NT2RP2002270, NT2RP2002503, NT2RP2002591,
 10 NT2RP2002880, NT2RP2002939, NT2RP2002993, NT2RP2003137, NT2RP2003157,
 NT2RP2003277, NT2RP2003286, NT2RP2003308, NT2RP2003347, NT2RP2003714,
 NT2RP2003912, NT2RP2004013, NT2RP2004187, NT2RP2004689, NT2RP2004920,
 NT2RP2005393, NT2RP2005436, NT2RP2005496, NT2RP2005539, NT2RP2005701,
 NT2RP2005767, NT2RP2005776, NT2RP2005933, NT2RP2005942, NT2RP2006043,
 15 NT2RP2006436, NT2RP3000031, NT2RP3000050, NT2RP3000397, NT2RP3000512,
 NT2RP3000527, NT2RP3000590, NT2RP3000603, NT2RP3000632, NT2RP3000917,
 NT2RP3001057, NT2RP3001107, NT2RP3001120, NT2RP3001253, NT2RP3001338,
 NT2RP3001384, NT2RP3001398, NT2RP3001427, NT2RP3001428, NT2RP3001472,
 NT2RP3001646, NT2RP3001671, NT2RP3001792, NT2RP3001855, NT2RP3002056,
 20 NT2RP3002165, NT2RP3002399, NT2RP3002876, NT2RP3003193, NT2RP3003212,
 NT2RP3003555, NT2RP3004016, NT2RP3004206, NT2RP3004424, NT2RP3004428,
 NT2RP3004566, NT2RP3004617, NT2RP4000078, NT2RP4000111, NT2RP4000210,
 NT2RP4000398, NT2RP4000481, NT2RP4000518, NT2RP4000997, NT2RP4001148,
 NT2RP4001206, NT2RP4001213, NT2RP4001433, NT2RP4001568, NT2RP4001638,
 25 NT2RP4001696, NT2RP4001753, NT2RP4001938, NT2RP4002058, NT2RP4002078,
 NT2RP4002081, NT2RP4002791, OVARC1000006, OVARC1000087, OVARC1000091,
 OVARC1000241, OVARC1000326, OVARC1000556, OVARC1000846, OVARC1001038,
 OVARC1001180, OVARC1001232, OVARC1001271, OVARC1001306, OVARC1001436,
 OVARC1002112, PLACE1000133, PLACE1000184, PLACE1000406, PLACE1000583,
 30 PLACE1000596, PLACE1000979, PLACE1001118, PLACE1001383, PLACE1001632,
 PLACE1002171, PLACE1002433, PLACE1002438, PLACE1002532, PLACE1002775,
 PLACE1002816, PLACE1002834, PLACE1003100, PLACE1003190, PLACE1003302,
 PLACE1003519, PLACE1003521, PLACE1003605, PLACE1003704, PLACE1003738,
 PLACE1003885, PLACE1003923, PLACE1004302, PLACE1004471, PLACE1004564,
 35 PLACE1004814, PLACE1004902, PLACE1005287, PLACE1005876, PLACE1005966,
 PLACE1006167, PLACE1006438, PLACE1006482, PLACE1006829, PLACE1006878,
 PLACE1006917, PLACE1007014, PLACE1007547, PLACE1007598, PLACE1007688,
 PLACE1007969, PLACE1008044, PLACE1008132, PLACE1008603, PLACE1009099,
 PLACE1009130, PLACE1009308, PLACE1009398, PLACE1010134, PLACE1010194,
 40 PLACE1010702, PLACE1010720, PLACE1010870, PLACE1011056, PLACE1011433,
 PLACE1011664, PLACE2000014, PLACE2000427, PLACE3000009, PLACE3000169,
 PLACE4000014, PLACE4000156, PLACE4000192, PLACE4000261, PLACE4000326,
 PLACE4000489, SKNMC1000011, THYRO1000085, THYRO1000242, THYRO1000585,
 THYRO1001100, THYRO1001189, THYRO1001809, Y79AA1000037, Y79AA1000214,
 45 Y79AA1000231, Y79AA1000589, Y79AA1000752, Y79AA1001391, Y79AA1001613,
 Y79AA1001705, Y79AA1001963, Y79AA1002431, Y79AA1002472, Y79AA1002482,

The following 296 clones presumably belong to DNA- and/or RNA-binding proteins.

50 HEMBA1000158, HEMBA1000216, HEMBA1000561, HEMBA1000591, HEMBA1000851,
 HEMBA1001088, HEMBA1001137, HEMBA1001405, HEMBA1001510, HEMBA1001804,
 HEMBA1001809, HEMBA1001819, HEMBA1001847, HEMBA1001869, HEMBA1002177,
 HEMBA1002935, HEMBA1003408, HEMBA1003545, HEMBA1003568, HEMBA1003591,

HEMBA1003662, HEMBA1003684, HEMBA1003760, HEMBA1003783, HEMBA1003805,
 HEMBA1003953, HEMBA1004321, HEMBA1004354, HEMBA1004389, HEMBA1004479,
 HEMBA1004669, HEMBA1004847, HEMBA1004973, HEMBA1005202, HEMBA1005359,
 HEMBA1005931, HEMBA1006248, HEMBA1006278, HEMBA1006283, HEMBA1006359,
 5 HEMBA1006652, HEMBA1007087, HEMBA1007194, HEMBB1000264, HEMBB1000789,
 HEMBB1001011, HEMBB1001482, HEMBB1001736, HEMBB1001749, HEMBB1001839,
 HEMBB1002217, MAMMA1000183, MAMMA1000284, MAMMA1000731,
 MAMMA1001105, MAMMA1001222, MAMMA1001260, MAMMA1001743,
 MAMMA1001837, MAMMA1002385, MAMMA1002617, MAMMA1002869,
 10 MAMMA1002937, MAMMA1003011, NT2RM1000086, NT2RM1000539, NT2RM1000555,
 NT2RM1000666, NT2RM1000691, NT2RM1000826, NT2RM1000885, NT2RM1001059,
 NT2RM1001092, NT2RM2000371, NT2RM2000624, NT2RM2000735, NT2RM2001105,
 NT2RM2001424, NT2RM2001575, NT2RM2001605, NT2RM2001670, NT2RM2001771,
 NT2RM2001823, NT2RM2001989, NT2RM2002004, NT2RM2002014, NT2RM2002088,
 15 NT2RM2002091, NT2RM4000046, NT2RM4000104, NT2RM4000167, NT2RM4000191,
 NT2RM4000202, NT2RM4000531, NT2RM4000595, NT2RM4000733, NT2RM4000751,
 NT2RM4000996, NT2RM4001092, NT2RM4001140,
 NT2RM4001178, NT2RM4001200, NT2RM4001483, NT2RM4001592, NT2RM4001783,
 NT2RM4001823, NT2RM4001828, NT2RM4001858, NT2RM4001880, NT2RM4001979,
 20 NT2RM4002093, NT2RM4002109, NT2RP1000470, NT2RP1000493, NT2RP1000574,
 NT2RP1000902, NT2RP1000966, NT2RP1001013, NT2RP1001073, NT2RP1001080,
 NT2RP2000008, NT2RP2000153, NT2RP2000258, NT2RP2000297, NT2RP2001127,
 NT2RP2001174, NT2RP2001233, NT2RP2001511, NT2RP2001756, NT2RP2001869,
 NT2RP2002079, NT2RP2002099, NT2RP2002503, NT2RP2002591, NT2RP2002939,
 25 NT2RP2003157, NT2RP2003329, NT2RP2003347, NT2RP2003480, NT2RP2003522,
 NT2RP2003564, NT2RP2003714, NT2RP2004187, NT2RP2004568, NT2RP2004920,
 NT2RP2005003, NT2RP2005139, NT2RP2005168, NT2RP2005436, NT2RP2005496,
 NT2RP2005701, NT2RP2005763, NT2RP2005776, NT2RP2005942, NT2RP2006043,
 NT2RP2006436, NT2RP2006464, NT2RP3000050, NT2RP3000512, NT2RP3000527,
 30 NT2RP3000562, NT2RP3000590, NT2RP3000603, NT2RP3000624, NT2RP3000632,
 NT2RP3000994, NT2RP3001057, NT2RP3001107, NT2RP3001120, NT2RP3001150,
 NT2RP3001155, NT2RP3001338, NT2RP3001398, NT2RP3001472, NT2RP3001672,
 NT2RP3001688, NT2RP3001724, NT2RP3001792, NT2RP3001855, NT2RP3002165,
 NT2RP3002399, NT2RP3002876, NT2RP3003138, NT2RP3003193, NT2RP3003251,
 35 NT2RP3003327, NT2RP3003555, NT2RP3004013, NT2RP3004078, NT2RP3004428,
 NT2RP3004490, NT2RP3004566, NT2RP3004594, NT2RP3004617, NT2RP3004618,
 NT2RP4000111, NT2RP4000398, NT2RP4000455, NT2RP4000518, NT2RP4000648,
 NT2RP4000865, NT2RP4000929, NT2RP4001080, NT2RP4001095, NT2RP4001213,
 NT2RP4001433, NT2RP4001568, NT2RP4001696, NT2RP4001753, NT2RP4001838,
 40 NT2RP4001938, NT2RP4002078, OVARC1000006, OVARC1000087, OVARC1000241,
 OVARC1000746, OVARC1000846, OVARC1001232, OVARC1001271, OVARC1001306,
 OVARC1001987, OVARC1002112, PLACE1000406, PLACE1000583, PLACE1000979,
 PLACE1001118, PLACE1001632, PLACE1001739, PLACE1002438, PLACE1002532,
 PLACE1002775, PLACE1002834, PLACE1003302, PLACE1003519, PLACE1003605,
 45 PLACE1003704, PLACE1003738, PLACE1003885, PLACE1004471, PLACE1004564,
 PLACE1004814, PLACE1005584, PLACE1005876, PLACE1005951, PLACE1006196,
 PLACE1006482, PLACE1006488, PLACE1006531, PLACE1006917, PLACE1007346,
 PLACE1007547, PLACE1007598, PLACE1007688, PLACE1007969, PLACE1008132,
 PLACE1009099, PLACE1009246, PLACE1009398, PLACE1009476, PLACE1009622,
 50 PLACE1010053, PLACE1010194, PLACE1010702, PLACE1010870, PLACE1011056,
 PLACE1011114, PLACE1011433, PLACE2000427, PLACE3000009, PLACE3000169,
 PLACE4000014, PLACE4000156, PLACE4000192, PLACE4000261, PLACE4000489,

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SKNMC1000091, THYRO1000085, THYRO1000242, THYRO1000501, THYRO1001100,
 THYRO1001189, THYRO1001809, Y79AA1000037, Y79AA1000349, Y79AA1000752,
 Y79AA1001211, Y79AA1001312, Y79AA1001391, Y79AA1001613, Y79AA1002103,
 Y79AA1002472, Y79AA1002482, HEMBA1004596, OVARC1000148, PLACE1003334,
 5 THYRO1001661,

The following 66 clones presumably belong to the category of RNA synthesis-associated proteins.

10 HEMBA1000591, HEMBA1001579, HEMBA1003179, HEMBA1003591, HEMBA1006278,
 HEMBB1000226, NT2RM1000187, NT2RM1000852, NT2RM2000624, NT2RM2001989,
 NT2RM2002100, NT2RM4000191, NT2RM4001178, NT2RM4002093, NT2RP1000035,
 NT2RP1000272, NT2RP1000470, NT2RP1001080, NT2RP2000153, NT2RP2002928,
 NT2RP2003157, NT2RP2004568, NT2RP2005126, NT2RP2005436, NT2RP2005539,
 NT2RP2005605, NT2RP2005776, NT2RP2005942, NT2RP2006043, NT2RP2006238,
 15 NT2RP3000361, NT2RP3000397, NT2RP3001671, NT2RP3004504, NT2RP4000078,
 NT2RP4000111, NT2RP4000481, NT2RP4000518, NT2RP4000614, NT2RP4000929,
 NT2RP4001696, NT2RP4002058, OVARC1001232, OVARC1001577, PLACE1000406,
 PLACE1000596, PLACE1000755, PLACE1001739, PLACE1003704, PLACE1003885,
 PLACE1004564, PLACE1004814, PLACE1004902, PLACE1005373, PLACE1005646,
 20 PLACE1005876, PLACE1006196, PLACE1006626, PLACE1006878, PLACE1006917,
 PLACE1009476, PLACE1009925, PLACE1010194, PLACE1011114, THYRO1000121,
 Y79AA1001963,

The following 184 clones presumably belong to protein synthesis- and/or protein transport-associated proteins.

25 HEMBA1000012, HEMBA1000141, HEMBA1000592, HEMBA1003617, HEMBA1003773,
 HEMBA1004202, HEMBA1004276, HEMBA1004734, HEMBA1004847, HEMBA1004929,
 HEMBA1004930, HEMBA1005047, HEMBA1005202, HEMBA1006031, HEMBA1006272,
 HEMBA1006474, HEMBA1006652, HEMBA1006914, HEMBA1006973, HEMBA1007224,
 30 HEMBB1000915, HEMBB1001112, HEMBB1001137, HEMBB1001736, HEMBB1001831,
 HEMBB1001915, MAMMA1000085, MAMMA1000734, MAMMA1001008,
 MAMMA1002170, MAMMA1002219, MAMMA1002236, MAMMA1002619,
 NT2RM1000661, NT2RM1000833, NT2RM2000092, NT2RM2000504, NT2RM2000577,
 NT2RM2000821, NT2RM2001201, NT2RM2001592, NT2RM2001613, NT2RM2001648,
 35 NT2RM2001730, NT2RM2001760, NT2RM2002055, NT2RM4000155, NT2RM4000169,
 NT2RM4000344, NT2RM4000356, NT2RM4000421, NT2RM4000712, NT2RM4001054,
 NT2RM4001203, NT2RM4001382, NT2RM4001444, NT2RM4002062, NT2RM4002205,
 NT2RM4002623, NT2RP1000326, NT2RP1000522, NT2RP1000547, NT2RP1000746,
 NT2RP1000947, NT2RP1001569, NT2RP2000147, NT2RP2000710, NT2RP2000880,
 40 NT2RP2000943, NT2RP2001290, NT2RP2001392, NT2RP2001601, NT2RP2001613,
 NT2RP2001660, NT2RP2001740, NT2RP2002124, NT2RP2002606, NT2RP2002862,
 NT2RP2002959, NT2RP2002980, NT2RP2003137, NT2RP2003158, NT2RP2003391,
 NT2RP2003394, NT2RP2003401, NT2RP2003433, NT2RP2003704, NT2RP2003713,
 NT2RP2003737, NT2RP2003760, NT2RP2003981, NT2RP2004366, NT2RP2004389,
 45 NT2RP2004791, NT2RP2005012, NT2RP2005116, NT2RP2005360, NT2RP2005763,
 NT2RP2005784, NT2RP3000366,
 NT2RP3000759, NT2RP3000968, NT2RP3001113, NT2RP3001690, NT2RP3002045,
 NT2RP3002151, NT2RP3002529, NT2RP3002671, NT2RP3003301, NT2RP3003846,
 NT2RP3003876, NT2RP3004209, NT2RP4000370, NT2RP4000457, NT2RP4000879,
 50 NT2RP4000927, NT2RP4001041, NT2RP4001117, NT2RP4001313, NT2RP4001315,
 NT2RP4001574, NT2RP4001592, OVARC1000013, OVARC1000071, OVARC1000085,
 OVARC1000465, OVARC1000564, OVARC1000771, OVARC1000862, OVARC1001171,

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PLACE1002433, PLACE1004316, PLACE1005287, PLACE1008808, PLACE1010720,
PLACE1010833, Y79AA1000748, Y79AA1001236, Y79AA1001394

The following 36 clones presumably belong to the category of embryogenesis- and/or
development-associated proteins.

HEMBA1000518, HEMBA1001847, HEMBA1001869, HEMBA1003545, HEMBA1004973,
HEMBA1002442, MAMMA1001837, NT2RM2001670, NT2RM4000046, NT2RM4000531,
NT2RM4001140, NT2RM4001858, NT2RP2002078, NT2RP2004187, NT2RP2006436,
NT2RP3000603, NT2RP3000994, NT2RP3001580, NT2RP3001708, NT2RP3003071,
NT2RP3004472, NT2RP3004617, NT2RP4000246, NT2RP4001567, OVARC1000304,
OVARC1000746, PLACE1000793, PLACE1002532, PLACE1003258, PLACE1003625,
PLACE1004460, PLACE1009622, PLACE4000558, THYRO1000085, Y79AA1001391,
Y79AA1001692

The following 30 clones presumably belong to cellular defense-associated proteins.

HEMBA1000005, HEMBA1000531, HEMBA1003417, HEMBA1006253, NT2RM4000354,
NT2RM4001880, NT2RP1000333, NT2RP1000493, NT2RP2000006, NT2RP2000045,
NT2RP2000809, NT2RP2001536, NT2RP2002464, NT2RP2004920, NT2RP2005037,
NT2RP3000590, NT2RP3001426, NT2RP3002062, NT2RP3002785, NT2RP3004262,
NT2RP4001555, NT2RP4001638, PLACE1006958, PLACE1008275, PLACE1009113,
PLACE1011858, PLACE4000014, THYRO1000684, Y79AA1002139, Y79AA1002229

Although it is unclear whether or not 261 clones out of clones other than the above-mentioned
clones belong to any of the above-described categories, these clones are predicted to have some
functions, based on the homology search using their full-length sequences.

HEMBA1000030, HEMBA1000307, HEMBA1000333, HEMBA1000488, HEMBA1000523,
HEMBA1001197, HEMBA1001302, HEMBA1001455, HEMBA1001675, HEMBA1001714,
HEMBA1001744, HEMBA1001967, HEMBA1002151, HEMBA1002215, HEMBA1002458,
HEMBA1002777, HEMBA1003098, HEMBA1003199, HEMBA1003615, HEMBA1003836,
HEMBA1004295, HEMBA1004573, HEMBA1004604, HEMBA1004795, HEMBA1005101,
HEMBA1005201, HEMBA1005206, HEMBA1005530, HEMBA1005666, HEMBA1005990,
HEMBA1006268, HEMBA1006398, HEMBA1006445, HEMBA1007174, HEMBA1007251,
HEMBA1000036, HEMBA1000144, HEMBA1000973, HEMBA1001058, HEMBA1001234,
HEMBA1001288, HEMBA1001331, HEMBA1001384, HEMBA1002266, HEMBA1002510,
HEMBA1002705, MAMMA1000055, MAMMA1000625, MAMMA1001075,
MAMMA1001181, MAMMA1001259, MAMMA1001730, MAMMA1002143,
MAMMA1002699, MAMMA1002972, MAMMA1003113, NT2RM1000118, NT2RM1000186,
NT2RM1000244, NT2RM1000421, NT2RM1000499, NT2RM1000623, NT2RM1000883,
NT2RM2000502, NT2RM2000599, NT2RM2000718, NT2RM2001065, NT2RM2001196,
NT2RM2001983, NT2RM2002109, NT2RM2002142, NT2RM4000030, NT2RM4000139,
NT2RM4000156, NT2RM4000386, NT2RM4000590, NT2RM4001047, NT2RM4001155,
NT2RM4001256, NT2RM4001320, NT2RM4001340, NT2RM4001347, NT2RM4001371,
NT2RM4001582, NT2RM4001611, NT2RM4001731, NT2RM4001969, NT2RM4002034,
NT2RM4002075, NT2RM4002226, NT2RP1000040, NT2RP1000363, NT2RP1000481,
NT2RP1000513, NT2RP1000733, NT2RP1000860, NT2RP1000954, NT2RP1001011,
NT2RP1001395, NT2RP1001457,
NT2RP1001494, NT2RP2000054, NT2RP2000067, NT2RP2000133, NT2RP2000157,
NT2RP2000764, NT2RP2000965, NT2RP2001839, NT2RP2001883, NT2RP2001976,
NT2RP2001985, NT2RP2002185, NT2RP2002442, NT2RP2002727, NT2RP2002741,
NT2RP2002986, NT2RP2003121, NT2RP2003265, NT2RP2003272, NT2RP2003857,
NT2RP2003871, NT2RP2004425, NT2RP2004476, NT2RP2004710, NT2RP2004816,
NT2RP2005441, NT2RP2005490, NT2RP2005620, NT2RP2005654, NT2RP2005675,

NT2RP2005753, NT2RP2005841, NT2RP2006598, NT2RP3000047, NT2RP3000233,
 NT2RP3000868, NT2RP3000869, NT2RP3001399, NT2RP3001407, NT2RP3001457,
 NT2RP3001587, NT2RP3001712, NT2RP3001819, NT2RP3001854, NT2RP3001931,
 NT2RP3002273, NT2RP3002631, NT2RP3002682, NT2RP3002770, NT2RP3002818,
 5 NT2RP3002948, NT2RP3002972, NT2RP3003032, NT2RP3003290, NT2RP3003411,
 NT2RP3003491, NT2RP3003500, NT2RP3003726, NT2RP3004348, NT2RP3004507,
 NT2RP4000129, NT2RP4000498, NT2RP4000528, NT2RP4000737, NT2RP4000979,
 NT2RP4001010, NT2RP4001207, NT2RP4001228, NT2RP4001260, NT2RP4001339,
 NT2RP4001351, NT2RP4001474, NT2RP4001966, NT2RP4002018, OVARC1000209,
 10 OVARC1000876, OVARC1001065, OVARC1001092, OVARC1001419, OVARC1001555,
 OVARC1001711, OVARC1001943, PLACE1000004, PLACE1000066, PLACE1000610,
 PLACE1000636, PLACE1000769, PLACE1000987, PLACE1001036, PLACE1001845,
 PLACE1001920, PLACE1002665, PLACE1003602, PLACE1003611, PLACE1004256,
 PLACE1004550, PLACE1004868, PLACE1004930, PLACE1005052, PLACE1005102,
 15 PLACE1005176, PLACE1005187, PLACE1005331, PLACE1005727, PLACE1006003,
 PLACE1006335, PLACE1006385, PLACE1006506, PLACE1007105, PLACE1007537,
 PLACE1007705, PLACE1007791, PLACE1007897, PLACE1008080, PLACE1008368,
 PLACE1008398, PLACE1008465, PLACE1008627, PLACE1009020, PLACE1009060,
 PLACE1009186, PLACE1009443, PLACE1009571, PLACE1009670, PLACE1010105,
 20 PLACE1010261, PLACE1010310, PLACE1010522, PLACE1010579, PLACE1010628,
 PLACE1010661, PLACE1010761, PLACE1011185, PLACE1011340, PLACE1011586,
 PLACE2000246, PLACE2000411, PLACE3000477, THYRO1000173, THYRO1000401,
 THYRO1000666, THYRO1001033, THYRO1001347, THYRO1001656, THYRO1001703,
 THYRO1001721, Y79AA1000059, Y79AA1000181, Y79AA1000268, Y79AA1000313,
 25 Y79AA1000540, Y79AA1000966, Y79AA1000985, Y79AA1001323, Y79AA1001402,
 Y79AA1001679, Y79AA1001923, Y79AA1002083, Y79AA1002307, Y79AA1002311,
 Y79AA1002487,

30 In some cases, the predicted functions based on the partial sequences are different from those
 based on the full-length sequences. The reason is that a protein does not always belong solely to
 a single category of the above-described functional categories, and therefore, a protein may
 belong to two or more of the predicted functional categories. Besides, additional functions can
 be found for the clones classified into these functional categories by further analyses.

35 Since the protein encoded by clones of the invention contains full-length amino acid sequence,
 it is possible to analyze its biological activity, and its effect on cellular conditions such as cell
 proliferation and differentiation by expressing the protein as a recombinant protein using an
 appropriate expression system, injecting the recombinant into the cell, or raising a specific
 antibody against the protein.

40 If the protein is a secretory protein, membrane protein, or protein associated with
 glycoprotein, signal transduction, or transcription, its biological activity can be analyzed by the
 methods in "Gene Transcription" (Hames B.D., and Higgins S.J. edit, (1993)), "Glycobiology"
 (Fukuda M., and Kobata A. edit, (1993)), "Growth Factors" (McKay I., and Leigh I. edit, (1993)),
 45 "Extracellular Matrix" (Haralson M.A., and Hassell J.R. edit, (1995)), "Transcription Factors"
 (Latchman D.S. edit, (1993)), "Signal Transduction" (Milligans G. edit, (1992)), "Protein
 Phosphorylation" (Hardies G.D. edit, (1993)), and "Ion Channels" (Ashley R.H. edit, (1995))
 featured in "The Practical Approach Series" (IRL PRESS), or "Signal Transduction Protocols"
 (Kendall D.A., and Hill S.J. edit, (1995)), "Glycoprotein Analysis in Biomedicine" (Hounsell E.F.
 50 edit, (1993)), featured in "Method in Molecular Biology" (Humana Press).

As to a protein associated with a disease, it is possible to perform a functional analysis as described above, but also possible to analyze correlation between the expression or the activity of the protein and a certain disease by using a specific antibody that is obtained by using expressed protein. Alternatively, it is possible to utilize the database Online Mendelian Inheritance in Man (OMIM) (<http://www.ncbi.nlm.nih.gov/Omim/>), which is a database of human genes and diseases, to analyze the protein.

New information is constantly being deposited in the OMIM database. Therefore, it is possible for one skilled in the art to find a new relationship between a particular disease and a gene of the present invention in the most up-to-date database.

Also, as for a secretory protein, membrane protein, signal transduction-associated protein, glycoprotein-associated protein, or transcription-associated protein, etc., search of the OMIM with the following keywords resulted in the finding that the proteins are associated with many diseases (the result of the OMIM search for secrete and membrane proteins is shown below). Also, association between proteins associated to signal transduction or transcription and diseases is reported in "Transcription Factor Research-1999" (Fujii, Tamura, Kageyama, and Satake edit, (1999) Jikken-Igaku Zoukan, Vol.17, No.3), and "Gene Medicine" ((1999) Vol.3, No.2). For example, in tumors, many proteins have been shown to play a role, including secretory proteins, membrane proteins, and proteins associated with signal transduction, glycoprotein, and transcription, and also proteins associated with metabolism, cytoskeleton, and cell cycle, as described in "Tumor Biology" (Matsubara S. (1992) Syoukabou Life Science series). Thus, besides the proteins associated with diseases, many proteins described above are also potentially associated with diseases, and thus useful as a target in the medicinal industry.

The result of the OMIM search for secretory and membrane proteins is shown below, in which the keywords,

- (1) secretion protein,
- (2) membrane protein,
- (3) channel, and
- (4) extracellular matrix were used.

Shown in the search result are only the accession numbers in the OMIM. Using the number, data showing the relationship between a disease and a gene or protein can be seen. The OMIM data has been renewed everyday.

1) Secretion protein

268 entries found, searching for "secretion protein"

104760, 176860, 160900, 107400, 118910, 139320, 603850, 147572, 176880, 600946, 603215, 157147, 600174, 151675, 170280, 179512, 179513, 138120, 179509, 246700, 179510, 600626, 179511, 600998, 109270, 601489, 154545, 179490, 185860, 603216, 122559, 601746, 147290, 602672, 146770, 603062, 179508, 131230, 601591, 602421, 139250, 167805, 167770, 600041, 600564, 118825, 601146, 300090, 600753, 601652, 600759, 600768, 602434, 182590, 603166, 308230, 602534, 603489, 107470, 150390, 104610, 173120, 158106, 143890, 306900, 308700, 134797, 137350, 227500, 176300, 107730, 600760, 138079, 120180, 120160, 120150, 124092, 138160, 101000, 227600, 600509, 601199, 142410, 104311, 193400, 201910, 107300, 122560, 272800, 217000, 590050, 147670, 133170, 176730, 300300, 134370, 274600, 120140, 162151, 158070, 152790, 120120, 106100, 300200, 192340, 190160, 138040, 147470, 147620, 173350, 147380, 152200, 152760, 157145, 153450, 264080, 113811, 600937, 600840, 188545, 202110, 600514, 186590, 603372, 136435, 137241, 252800, 214500, 207750, 138850, 139191, 142640, 138130, 189907, 603692, 600633, 603355, 107270, 600377, 147892, 232200, 600281, 232800, 602358, 137035, 601771, 601769, 253200, 601933, 118444, 600270, 120700, 600945, 603732, 147660, 600761, 172400, 600823, 600877, 130080, 171060, 107740, 307800, 602843, 130660, 152780, 124020, 601124, 601340, 601604, 601610, 171050, 312060, 232700, 300159, 142703, 600734, 125255, 168450, 123812, 188540, 147940, 188450, 600839, 182452, 188400, 182280,

000220-09462960

176760, 263200, 600264, 188826, 252650, 601185, 162641, 137216, 601398, 601538, 118888, 118445, 601745, 190180, 601922, 182098, 602008, 147440, 602384, 600031, 109160, 602663, 151670, 602682, 602730, 602779, 146880, 603061, 142704, 603140, 106150, 600732, 153620, 603318, 139392, 600042, 102200, 603493, 182100, 264300, 603795, 184600

5 2) Membrane protein

1017 entries found, searching for "membrane protein"

130500, 305360, 153330, 173610, 170995, 109270, 170993, 309060, 120920, 602333, 133740, 133710, 602690, 133730, 159430, 600897, 133090, 601178, 602413, 602003, 109280, 603237, 602173, 107776, 602334, 125305, 602335, 182879, 154045, 309845, 600594, 603718, 603241, 10 603214, 603657, 603177, 600182, 601476, 602879, 136950, 600723, 601114, 185880, 185881, 300096, 602257, 160900, 177070, 603062, 603344, 602977, 310200, 600959, 300100, 186945, 600039, 600267, 128240, 182900, 601097, 136430, 600946, 602534, 601047, 143450, 603141, 603700, 600579, 256540, 159440, 602414, 600403, 602048, 188860, 137290, 158343, 184756, 602910, 603179, 600279, 108733, 107770, 173335, 602625, 154050, 219800, 603850, 601028, 15 600447, 104225, 186946, 601767, 603143, 121015, 603215, 227400, 603735, 600179, 602421, 180721, 176801, 176860, 600753, 603142, 176790, 600266, 601239, 115501, 143890, 121014, 121011, 125950, 603534, 304040, 601134, 600754, 601510, 601595, 190315, 300172, 602216, 602261, 602262, 602461, 131560, 179514, 179512, 176981, 142461, 139310, 312080, 176640, 128239, 20 185470, 310300, 601403, 601757, 273800, 151460, 176943, 104311, 168468, 120130, 602887, 600164, 601531, 601832, 104775, 600040, 603583, 176894, 602631, 166945, 182180, 120620, 141180, 601014, 139150, 182860, 177061, 600174, 180069, 191275, 104760, 601693, 300017, 603518, 601009, 134651, 601107, 603868, 600168, 136425, 603531, 603291, 600917, 603216, 102720, 300118, 179590, 135630, 602285, 107450, 602296, 303630, 176878, 120090, 600322, 25 138160, 601212, 603293, 131230, 112205, 600763, 600718, 300187, 170715, 601966, 300051, 602474, 120070, 600691, 600855, 182309, 602101, 602857, 194355, 162230, 600874, 113730, 155550, 602701, 306400, 601789, 231200, 107271, 175100, 182870, 305100, 301000, 601313, 157147, 147670, 139200, 603593, 157655, 600934, 155970, 602049, 155960, 155760, 118990, 135620, 30 308230, 602694, 162060, 300023, 160993, 153619, 153432, 120131, 603823, 603167, 601023, 600816, 165040, 601681, 166490, 300112, 120190, 300145, 163970, 600772, 602926, 602933, 602202, 400015, 151510, 600759, 602672, 602654, 603821, 116952, 151430, 602632, 155975, 602217, 150370, 600752, 601179, 600932, 603048, 603234, 601805, 603822, 603869, 601717, 601181, 313440, 139130, 107777, 109190, 603452, 191163, 191164, 602370, 176877, 103195, 35 600523, 191328, 601275, 204200, 602426, 603820, 600551, 600695, 600552, 600553, 602306, 601523, 602507, 602299, 600583, 114070, 600632, 603498, 185430, 600587, 235200, 173470, 603199, 601633, 602500, 208900, 180297, 156225, 516020, 190195, 141900, 102680, 193300, 101000, 193400, 300011, 107400, 257220, 107741, 180380, 203200, 111700, 600024, 304800, 600065, 40 110750, 179605, 113705, 601638, 222900, 120120, 602509, 602469, 600930, 601383, 176261, 602574, 602997, 311770, 131550, 603616, 308700, 603372, 256100, 224100, 276903, 305900, 516000, 131195, 314555, 601567, 603866, 306900, 103390, 186720, 173850, 601050, 602505, 186590, 246530, 602689, 194380, 300041, 162643, 152790, 120150, 600682, 600106, 272750, 188040, 602382, 601497, 113811, 182138, 212138, 601309, 109690, 114760, 176805, 601253, 45 123900, 602581, 189980, 191190, 110700, 600163, 137167, 600580, 601610, 190000, 123825, 603491, 600135, 186591, 173910, 138140, 107266, 120950, 601081, 603690, 244400, 312700, 171060, 601199, 601758, 170500, 277900, 601997, 314850, 601880, 603009, 120220, 603126, 164920, 602934, 164730, 163890, 603434, 107269, 602909, 600877, 256550, 164761, 602872, 120110, 50 126150, 158070, 266200, 223360, 250800, 269920, 252650, 603355, 154582, 138190, 300035, 602640, 227650, 158120, 153700, 182380, 155740, 204500, 603401, 601975, 300135, 136350, 602924, 300167, 185050, 176100, 300189, 151525, 300200, 165180, 230800, 602158, 602676,

009220" 69462960

601958, 602780, 602781, 601327, 601012, 600734, 603208, 182392, 603220, 603219, 603888, 600054, 602232, 601745, 603537, 602604, 603796, 302910, 602866, 601013, 602905, 602906, 600163, 152427, 180901, 600702, 600308, 602754, 107776, 602024, 314555, 601949, 600235, 602023, 176263, 600681, 176265, 193245, 603305, 176258, 602983, 601219, 601141, 176267, 602343, 602726, 138253, 176262, 600003, 600397, 602872, 138249, 600843, 600935, 600580, 600845, 602158, 602106, 176264, 300110, 176257, 602717, 603493, 176268, 600932, 602727, 138254, 603652, 300138, 602420, 600570, 600150, 603583, 602345, 603749, 601142, 176256, 600846, 138252, 602982, 603787, 602836, 603788, 602566, 603651, 602421, 100690, 107777, 100725, 100710, 600509, 603061, 154275, 304040, 154276, 180902, 121014, 602368, 139311, 601383, 108745, 601313, 601042, 600131, 186360, 600109, 600229, 600170, 603319, 601485, 118503, 180903, 602076, 124030, 601059, 601212, 601218, 147450, 600855, 600919, 601154, 601157, 171060, 600968, 182139, 131230, 121015, 600421, 113730, 249210, 310500, 600637, 125950, 118800, 156490, 602974, 104610, 121011, 602522, 118504, 300041, 160900, 601382, 602103, 600465, 602014, 600442, 601109, 602481, 277900, 254210, 138247, 164920, 170280, 171050, 128100, 173910, 600884, 123885, 602887, 600232, 180297, 137192, 600304, 138251, 603053, 300103, 603152, 603199, 118511, 118508, 138079, 600983, 182307, 603324, 305990, 603418, 114080, 232200, 600046, 600040, 602403, 603750, 603785, 104210, 600019, 600300, 182860, 603852, 603853, 603855, 516060

4) Extracellular matrix

167 entries found, searching for "extracellular matrix"

603479, 602201, 601418, 601548, 154870, 115437, 602285, 602262, 602261, 134797, 600754, 120361, 116935, 602263, 603320, 601807, 603321, 185250, 185261, 253700, 128239, 120324, 193300, 276901, 308700, 600514, 600261, 602109, 120140, 120150, 147557, 193400, 600536, 188826, 120180, 118661, 120320, 152200, 135821, 112260, 230740, 602090, 155760, 192975, 190182, 602108, 601463, 186745, 600900, 600985, 600758, 602369, 179590, 601211, 600065, 602178, 600262, 182888, 182889, 151510, 182120, 150325, 190181, 150370, 186355, 193065, 165070, 154705, 147559, 146650, 146640, 153619, 175100, 187380, 231050, 188060, 135820, 156790, 130660, 301870, 128240, 600076, 600119, 193210, 600215, 600245, 121010, 150240, 600309, 600491, 222600, 120328, 600564, 600596, 600616, 600700, 600742, 120325, 138297, 600930, 156225, 601028, 601050, 601105, 253800, 601284, 601313, 120280, 310200, 601492, 120250, 601587, 601636, 601652, 601692, 601728, 120220, 601915, 602048, 155120, 310300, 120210, 120165, 120120, 118940, 116930, 602264, 116806, 602366, 120470, 602415, 602428, 602453, 602505, 602574, 603005, 603196, 603221, 603319, 107269, 216550, 103320, 603489, 603551, 603767, 603799, 603842

There are several methods for analyzing the expression levels of genes associated with diseases. Differences in gene expression levels between diseased and normal tissues are studied by the analytical methods, for example, Northern hybridization and differential display. Other examples include a method with high-density cDNA filter, a method with DNA microarray and methods with PCR amplification (Experimental Medicine, Vol.17, No. 8, 980-1056 (1999); Cell Engineering (additional volume) DNA Microarray and Advanced PCR Methods, Muramatsu & Naba (eds.), Shujunsa). The varying levels of gene expression between diseased tissues and normal tissues can be studied by any of these analytical methods. When explicit difference in the expression level is observed for a gene, it can be concluded that the gene is closely associated with a disease or disorder. Instead of diseased tissues, cultured cells can be used for the assessment. Similarly, when gene expression is explicitly different between normal cells and cells reproducing disease-associated specific features, it can be concluded that the gene is closely associated with a disease or disorder. When the expression levels of genes are evidently varied during major cellular events (such as differentiation and apoptosis), the genes are involved in the

cellular events and accordingly are candidates for disease- and/or disorder-associated genes. Further, genes exhibiting tissue-specific expression are genes playing important parts in the tissue functions and, therefore, can be candidates for genes associated with diseases and/or disorders affecting the tissues.

For example, non-enzymic protein glycation reaction is believed to be a cause for a variety of chronic diabetic complications. Accordingly, genes of which expression levels are elevated or decreased in a glycated protein-dependent manner in the endothelial cells, are associated with diabetic complications caused by glycated proteins (Diabetes 1996, 45 (Suppl. 3), S67-S72; Diabetes, 1997, 46 (Suppl. 2), S19-S25).

The onset of rheumatoid arthritis is thought to be involved in the proliferation of synovial cells covering inner surfaces of joint cavity and in inflammatory reaction resulted from the action of cytokines produced by leukocytes infiltrating into the joint synovial tissues (Rheumatism Information Center, <http://www.rheuma-net.or.jp/>). Recent studies have also revealed that tissue necrosis factor (TNF)- α participates in the onset (Current opinion in immunology 1999, 11, 657-662). When the expression of a gene exhibits responsiveness to the action of TNF on synovial cells, the gene is considered to be involved in rheumatoid arthritis. Many genes acting at the downstream of TNF- α and IL-1 β among inflammation-associated cytokines have been previously identified. The respective stimulations are transduced through independent pathways of signaling cascade. There exists another signaling cascade for both stimulations, wherein NF- κ B is a common transducing molecule shared by the two stimulations (J. Leukoc. Biol., 1994, 56(5): 542-547). It has also been revealed that many inflammation-associated genes, including IL-2, IL-6 and G-CSF, are varied in the expression levels thereof in response to the signal through the common pathway (Trend Genet. 1999, 15(6): 229-235). It is assumed that genes of which expression levels are varied in response to the stimulation of TNF- α or IL-1 β also participate in inflammation.

Ultraviolet radiation damage has been recognized as a risk factor for skin cancers, etc. (United States Environmental Protection Agency: Ozone Depletion Home Page, <http://www.epa.gov/ozone/>). Genes of which expression levels are varied in skin epidermal cells exposed to ultraviolet rays are considered to be associated with ultraviolet radiation damage of skin. In addition, genes associated with neural differentiation can be candidates for genes responsible for neurological diseases as well as candidates for genes usable for treating the diseases.

Clones exhibiting differences in the expression levels thereof can be selected by using gene expression analysis. The selection comprises, for example; analyzing cDNA clones by using high-density cDNA filter; and statistically treating the multiple signal values (signal values of radioisotope in the labeled probes or values obtained by measuring fluorescence intensities emitted from the fluorescent labels) for the respective clones by two-sample t-test, where the signal values are determined by multiple experiments of hybridization. The clones of interest are selectable based on the statistically significant differences in the signal distribution at $p < 0.05$. However, selectable clones with significant difference in the expression levels thereof may be changed depending on the partial modification of statistical treatment. For example, the clones may be selected by conducting statistical treatment with two-sample t-test at $p < 0.01$; or genes exhibiting more explicit differences in the expression levels thereof can be selected by performing statistical treatment with a pre-determined cut-off value for the significant signal difference. An alternative method is that the expression levels are simply compared with each other, and then, the clones of interest are selected based on the ratio of the expression levels thereof.

Clones that vary in their expression levels can also be selected by comparing the expression levels by PCR analysis, for example, by using the method of determining the band intensities representing the amounts of PCR products with ethidium bromide staining; the method of determining the values of radioisotope signals or fluorescence intensities of the PCR products when radiolabeled or fluorescent dye-labeled primers, respectively, are used in PCR

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amplification; or the method of determining the values of radioisotope signals or fluorescence intensities of the probes hybridized to the PCR products when radiolabeled or fluorescent dye-labeled probes, respectively, are used in the hybridization. If the expression level ratios obtained in multiple PCR experiments are constantly at least 2-fold, such a clone can be judged to vary in its expression level. When the ratios are several-fold or not less than 10-fold, the clone can be selected as a gene exhibiting the explicit difference in its expression level.

A survey of genes of which expression levels are varied specifically to the glycated protein in the endothelial cells has revealed genes with elevated expression levels, HEMBA1003958, HEMBA1004850, MAMMA1001256, MAMMA1002132, PLACE2000411 and PLACE3000119. On the other hand, a gene of which expression level is decreased specifically to the glycated protein is MAMMA1001783. These clones are genes associated with diabetes.

A survey of genes of which expression levels are varied in response to TNF- α (Tumor Necrosis Factor-alpha) in the primary cell culture of synovial tissue has revealed the following clones with elevated expression levels in the presence of TNF- α :

HEMBA1000005, HEMBA1000012, HEMBA1000020, HEMBA1000046, HEMBA1000076, HEMBA1000111, HEMBA1000168, HEMBA1000185, HEMBA1000201, HEMBA1000231, HEMBA1000243, HEMBA1000280, HEMBA1000282, HEMBA1000304, HEMBA1000307, HEMBA1000327, HEMBA1000356, HEMBA1000376, HEMBA1000387, HEMBA1000390, HEMBA1000418, HEMBA1000460, HEMBA1000491, HEMBA1000501, HEMBA1000518, HEMBA1000519, HEMBA1000520, HEMBA1000531, HEMBA1000534, HEMBA1000542, HEMBA1000545, HEMBA1000591, HEMBA1000592, HEMBA1000594, HEMBA1000636, HEMBA1000655, HEMBA1000657, HEMBA1000673, HEMBA1000682, HEMBA1000686, HEMBA1000722, HEMBA1000726, HEMBA1000827, HEMBA1000870, HEMBA1000918, HEMBA1000971, HEMBA1000974, HEMBA1000986, HEMBA1001019, HEMBA1001043, HEMBA1001051, HEMBA1001059, HEMBA1001060, HEMBA1001071, HEMBA1001080, HEMBA1001109, HEMBA1001140, HEMBA1001172, HEMBA1001196, HEMBA1001213, HEMBA1001226, HEMBA1001281, HEMBA1001299, HEMBA1001302, HEMBA1001303, HEMBA1001323, HEMBA1001326, HEMBA1001327, HEMBA1001330, HEMBA1001351, HEMBA1001407, HEMBA1001411, HEMBA1001446, HEMBA1001454, HEMBA1001569, HEMBA1001647, HEMBA1001714, HEMBA1001800, HEMBA1001804, HEMBA1001809, HEMBA1001888, HEMBA1001912, HEMBA1001921, HEMBA1001967, HEMBA1002084, HEMBA1002161, HEMBA1002166, HEMBA1002241, HEMBA1002337, HEMBA1002363, HEMBA1002389, HEMBA1002458, HEMBA1002460, HEMBA1002469, HEMBA1002538, HEMBA1002542, HEMBA1002547, HEMBA1002609, HEMBA1002624, HEMBA1002659, HEMBA1002750, HEMBA1002770, HEMBA1002779, HEMBA1002810, HEMBA1002816, HEMBA1002818, HEMBA1002850, HEMBA1002863, HEMBA1003021, HEMBA1003033, HEMBA1003078, HEMBA1003166, HEMBA1003202, HEMBA1003204, HEMBA1003229, HEMBA1003235, HEMBA1003276, HEMBA1003286, HEMBA1003296, HEMBA1003370, HEMBA1003376, HEMBA1003403, HEMBA1003418, HEMBA1003433, HEMBA1003447, HEMBA1003560, HEMBA1003569, HEMBA1003571, HEMBA1003591, HEMBA1003597, HEMBA1003598, HEMBA1003621, HEMBA1003656, HEMBA1003662, HEMBA1003680, HEMBA1003715, HEMBA1003725, HEMBA1003729, HEMBA1003733, HEMBA1003742, HEMBA1003773, HEMBA1003783, HEMBA1003950, HEMBA1004012, HEMBA1004015, HEMBA1004048, HEMBA1004074, HEMBA1004086, HEMBA1004111, HEMBA1004131, HEMBA1004202, HEMBA1004203, HEMBA1004207, HEMBA1004248, HEMBA1004274, HEMBA1004321, HEMBA1004330, HEMBA1004356, HEMBA1004366, HEMBA1004405, HEMBA1004408, HEMBA1004429, HEMBA1004499, HEMBA1004507, HEMBA1004509, HEMBA1004542, HEMBA1004596, HEMBA1004604, HEMBA1004776, HEMBA1004889, HEMBA1004934, HEMBA1004978, HEMBA1005019, HEMBA1005047, HEMBA1005206, HEMBA1005219, HEMBA1005274, HEMBA1005331, HEMBA1005338, HEMBA1005394, HEMBA1005423, HEMBA1005576, HEMBA1005732, HEMBA1005746,

HEMBA1006091, HEMBA1006142, HEMBA1006173, HEMBA1006198, HEMBA1006253,
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15 HEMBB1002342, HEMBB1002371, HEMBB1002409, HEMBB1002442, HEMBB1002489,
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20 MAMMA1000270, MAMMA1000307, MAMMA1000410, MAMMA1000413,
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MAMMA1000824, MAMMA1000905, MAMMA1000921, MAMMA1000931,
25 MAMMA1000957, MAMMA1000962,
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30 MAMMA1002267, MAMMA1002292, MAMMA1002311, MAMMA1002322,
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40 NT2RM1000499, NT2RM1000539, NT2RM1000553, NT2RM1000563, NT2RM1000699,
NT2RM1000742, NT2RM1000826, NT2RM1000829, NT2RM1000833, NT2RM1000882,
NT2RM1000898, NT2RM1000905, NT2RM1001092, NT2RM2000013, NT2RM2000032,
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NT2RM2000260, NT2RM2000363, NT2RM2000368, NT2RM2000402, NT2RM2000452,
45 NT2RM2000952, NT2RM2001221, NT2RM2002014, NT2RM2002030, NT2RM4000156,
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NT2RM4000698, NT2RM4000764, NT2RM4001016, NT2RM4001084, NT2RM4001594,
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50 NT2RM4002189, NT2RM4002194, NT2RM4002226, NT2RP1000170, NT2RP1000439,
NT2RP1000478, NT2RP1000513, NT2RP1000701, NT2RP1000856, NT2RP1001361,
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 NT2RP2005037, NT2RP2005140, NT2RP2005204, NT2RP2005293, NT2RP2005457,
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 NT2RP3001969, NT2RP3002081, NT2RP3002142, NT2RP3002399, NT2RP3002590,
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 NT2RP4000588, NT2RP4001219, NT2RP4001228, NT2RP4001276, NT2RP4001507,
 NT2RP4002047, NT2RP5003459, NT2RP5003492, OVARC1000085, OVARC1000087,
 OVARC1000106, OVARC1000151, OVARC1000198, OVARC1000431, OVARC1000440,
 OVARC1000564, OVARC1000605, OVARC1000679, OVARC1000883, OVARC1000912,
 20 OVARC1000960, OVARC1000971, OVARC1001038, OVARC1001055, OVARC1001085,
 OVARC1001129, OVARC1001167, OVARC1001339, OVARC1001425, OVARC1001745,
 OVARC1001762, OVARC1001766, OVARC1001942, OVARC1002044, OVARC1002138,
 PLACE1000004, PLACE1000005, PLACE1000420, PLACE1000547, PLACE1000562,
 PLACE1000653, PLACE1001168, PLACE1001311, PLACE1001377, PLACE1001920,
 25 PLACE1001983, PLACE1002066, PLACE1002072, PLACE1002140, PLACE1002171,
 PLACE1002319, PLACE1002474, PLACE1002499, PLACE1002532, PLACE1002665,
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 PLACE1003783, PLACE1003885, PLACE1004405, PLACE1004629, PLACE1004686,
 PLACE1004930, PLACE1005066, PLACE1005077, PLACE1005630, PLACE1005876,
 30 PLACE1006143, PLACE1006325, PLACE1006488, PLACE1006805, PLACE1006829,
 PLACE1007286, PLACE1007858, PLACE1008201, PLACE1009045, PLACE1009113,
 PLACE1009621, PLACE1010106, PLACE1010310, PLACE1010622, PLACE1010944,
 PLACE1010965, PLACE1011185, PLACE1011332, PLACE1011635, PLACE1011646,
 PLACE1011725, PLACE2000014, PLACE2000264, PLACE2000394, PLACE2000419,
 35 PLACE3000160, PLACE3000220, PLACE3000254, PLACE3000271, PLACE3000339,
 PLACE3000341, PLACE3000350, PLACE3000353, PLACE3000401, PLACE4000300,
 SKNMC1000091, THYRO1000855, THYRO1001559, Y79AA1000065, Y79AA1000202,
 Y79AA1000214, Y79AA1000346, Y79AA1000784, Y79AA1000833, Y79AA1000968,
 Y79AA1001555, Y79AA1002220

On the other hand, clones with decreased expression levels in the presence of TNF α are:
 HEMBA1002150, HEMBB1000240, NT2RM2000469, NT2RM2000984, NT2RM2001688,
 NT2RM4000290, NT2RM4000496, NT2RM4000590, NT2RM4001047, NT2RM4001582,
 NT2RM4001611, NT2RM4001650, NT2RM4002075, NT2RM4002128, NT2RP1000174,
 45 NT2RP1000243, NT2RP1000581, NT2RP1000688, NT2RP1000767, NT2RP1000825,
 NT2RP1001185, NT2RP1001286, NT2RP1001432, NT2RP1001457, NT2RP2000001,
 NT2RP2000248, NT2RP2000841, NT2RP2001813, NT2RP2002137, NT2RP2002928,
 NT2RP2003517, NT2RP2003559, NT2RP2003564, NT2RP2004933, NT2RP2005038,
 NT2RP2006365, NT2RP3000072, NT2RP3000320, NT2RP3000484, NT2RP3000980,
 50 NT2RP3001111, NT2RP3001420, NT2RP3001495, NT2RP3002056, NT2RP3002057,
 NT2RP3002545, NT2RP3002713, NT2RP3002799, NT2RP3002869, NT2RP3002953,
 NT2RP3002955, NT2RP3003282, NT2RP3003290, NT2RP3003384, NT2RP3003385,

These are rheumatoid arthritis-associated clones.

On the other hand, the expression levels of the following clones were decreased by ultraviolet radiation:

HEMBA1000005, HEMBA1000150, HEMBA1000156, HEMBA1000158, HEMBA1000168,
HEMBA1000231, HEMBA1000304, HEMBA1000307, HEMBA1000333, HEMBA1000366,
HEMBA1000369, HEMBA1000390, HEMBA1000396, HEMBA1000418, HEMBA1000434,
HEMBA1000464, HEMBA1000469, HEMBA1000490, HEMBA1000504, HEMBA1000505,
HEMBA1000557, HEMBA1000657, HEMBA1000673, HEMBA1000682, HEMBA1000686,
HEMBA1000727, HEMBA1000752, HEMBA1000851, HEMBA1000852, HEMBA1000870,
HEMBA1000872, HEMBA1001085, HEMBA1001121, HEMBA1001133, HEMBA1001235,
HEMBA1001265, HEMBA1001281, HEMBA1001289, HEMBA1001299, HEMBA1001303,
HEMBA1001310, HEMBA1001323, HEMBA1001595, HEMBA1001620, HEMBA1001640,
HEMBA1001678, HEMBA1001712, HEMBA1001835, HEMBA1001950, HEMBA1001987,
HEMBA1002253, HEMBA1002321, HEMBA1002341, HEMBA1002419, HEMBA1002679,
HEMBA1002728, HEMBA1002818, HEMBA1002935, HEMBA1002999, HEMBA1003034,
HEMBA1003071, HEMBA1003098, HEMBA1003142, HEMBA1003175, HEMBA1003202,
HEMBA1003212, HEMBA1003220, HEMBA1003276, HEMBA1003373, HEMBA1003417,
HEMBA1003447, HEMBA1003528, HEMBA1003684, HEMBA1003799, HEMBA1003885,
HEMBA1003989, HEMBA1004011, HEMBA1004055, HEMBA1004133, HEMBA1004225,
HEMBA1004272, HEMBA1004353, HEMBA1004631, HEMBA1004669, HEMBA1004705,
HEMBA1004753, HEMBA1004776, HEMBA1004803, HEMBA1004816, HEMBA1004900,
HEMBA1005047, HEMBA1005079, HEMBA1005101, HEMBA1005149, HEMBA1005152,
HEMBA1005202, HEMBA1005314, HEMBA1005372, HEMBA1005511, HEMBA1005513,
HEMBA1005518, HEMBA1005570, HEMBA1005577, HEMBA1005581, HEMBA1005588,
HEMBA1005609, HEMBA1005632, HEMBA1005853, HEMBA1006031, HEMBA1006035,
HEMBA1006485, HEMBA1006486, HEMBA1006502, HEMBA1006696, HEMBA1006789,
HEMBA1006796, HEMBA1007085, HEMBA1007224, HEMBA1007301, HEMBA1007319,
HEMBA1007341, HEMBA1007342, HEMBB1000036, HEMBB1000037, HEMBB1000217,
HEMBB1000266, HEMBB1000317, HEMBB1000336, HEMBB1000354, HEMBB1000369,
HEMBB1000399, HEMBB1000434, HEMBB1000438, HEMBB1000592, HEMBB1000673,
HEMBB1000789, HEMBB1000810, HEMBB1000883, HEMBB1000887, HEMBB1001105,
HEMBB1001182, HEMBB1001242, HEMBB1001267, HEMBB1001424, HEMBB1001464,
HEMBB1001531, HEMBB1001618, HEMBB1001996, HEMBB1002092, HEMBB1002139,
HEMBB1002142, HEMBB1002190, HEMBB1002453, HEMBB1002520, HEMBB1002550,
HEMBB1002556, HEMBB1002600, HEMBB1002664, MAMMA1000009, MAMMA1000055,
MAMMA1000069, MAMMA1000133, MAMMA1000171, MAMMA1000173,
MAMMA1000287, MAMMA1000416, MAMMA1000585, MAMMA1000713,
MAMMA1000760, MAMMA1000798, MAMMA1000831, MAMMA1000875,
MAMMA1000876, MAMMA1000877, MAMMA1000906, MAMMA1000931.

MAMMA1000962, MAMMA1001133, MAMMA1001139, MAMMA1001243,
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 5 MAMMA1002236, MAMMA1002311, MAMMA1002498, MAMMA1002754,
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 20 NT2RM4000813, NT2RM4000820, NT2RM4000852, NT2RM4000950, NT2RM4000996,
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 30 NT2RP1000174, NT2RP1000348, NT2RP1000443, NT2RP1000522, NT2RP1000677,
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 35 NT2RP2000126, NT2RP2000205, NT2RP2000224, NT2RP2000274, NT2RP2000298,
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 NT2RP2000369, NT2RP2000414, NT2RP2000498, NT2RP2000510, NT2RP2000715,
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 40 NT2RP2001381, NT2RP2001420, NT2RP2001427, NT2RP2001449, NT2RP2001511,
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 5 NT2RP2004239, NT2RP2004240, NT2RP2004321, NT2RP2004364, NT2RP2004365,
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 20 NT2RM4000887, NT2RM4000895, NT2RM4001032, NT2RM4001203, NT2RM4001316,
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 30 NT2RP2000054, NT2RP2000079, NT2RP2000091, NT2RP2000097, NT2RP2000161,
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 35 NT2RP2001597, NT2RP2001634, NT2RP2001660, NT2RP2001762, NT2RP2001947,
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 40 NT2RP2002980, NT2RP2002986, NT2RP2003121, NT2RP2003161, NT2RP2003272,
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 45 NT2RP2004245, NT2RP2004316, NT2RP2004366, NT2RP2004396, NT2RP2004463,
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 50 NT2RP2005288, NT2RP2005315, NT2RP2005344, NT2RP2005407, NT2RP2005453,
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 5 NT2RP3000267, NT2RP3000341, NT2RP3000403, NT2RP3000526, NT2RP3000531,
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 10 NT2RP3001318, NT2RP3001399, NT2RP3001420, NT2RP3001426, NT2RP3001472,
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 20 NT2RP3004572, NT2RP3004578, NT2RP4000109, NT2RP4000246, NT2RP4000360,
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 OVARC1000087, OVARC1000113, OVARC1000139, OVARC1000145, OVARC1000209,
 30 OVARC1000212, OVARC1000408, OVARC1000427, OVARC1000466, OVARC1000496,
 OVARC1000533, OVARC1000576, OVARC1000640, OVARC1000649, OVARC1000682,
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 35 OVARC1001391, OVARC1001453, OVARC1001476, OVARC1001480, OVARC1001547,
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 40 PLACE1000133, PLACE1000214, PLACE1000347, PLACE1000374, PLACE1000424,
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 45 PLACE1001024, PLACE1001054, PLACE1001062, PLACE1001118, PLACE1001168,
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 50 PLACE1002474, PLACE1002500, PLACE1002529, PLACE1002537, PLACE1002598,
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 10 PLACE1005698, PLACE1005727, PLACE1005739, PLACE1005851, PLACE1005925,
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 15 PLACE1007226, PLACE1007243, PLACE1007454, PLACE1007547, PLACE1007598,
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 20 PLACE1008603, PLACE1008650, PLACE1008696, PLACE1008757, PLACE1008807,
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 25 PLACE1010023, PLACE1010053, PLACE1010069, PLACE1010074, PLACE1010181,
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 30 PLACE1011875, PLACE1011896, PLACE1011964, PLACE1012031, PLACE2000015,
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 40 THYRO1000072, THYRO1000132, THYRO1000173, THYRO1000190, THYRO1000197,
 THYRO1000221, THYRO1000253, THYRO1000270, THYRO1000279, THYRO1000327,
 THYRO1000394, THYRO1000438, THYRO1000558, THYRO1000569, THYRO1000585,
 THYRO1000596, THYRO1000625, THYRO1000637, THYRO1000676, THYRO1000734,
 THYRO1000777, THYRO1000783, THYRO1000805, THYRO1000843, THYRO1000934,
 45 THYRO1001033, THYRO1001347, THYRO1001405, THYRO1001411, THYRO1001534,
 THYRO1001573, THYRO1001584, THYRO1001602, THYRO1001605, THYRO1001772,
 THYRO1001854, VESEN1000122, Y79AA1000037, Y79AA1000065, Y79AA1000181,
 Y79AA1000231, Y79AA1000349, Y79AA1000355, Y79AA1000368, Y79AA1000538,
 Y79AA1000782, Y79AA1001023, Y79AA1001145, Y79AA1001391, Y79AA1001541,
 50 Y79AA1001585, Y79AA1001705, Y79AA1001781, Y79AA1001923, Y79AA1001963,
 Y79AA1002125, Y79AA1002229, Y79AA1002407, Y79AA1002487

These clones are associated with ultraviolet radiation damage.

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A survey of genes of which expression levels are varied in response to the stimulation for inducing cell differentiation (stimulation using retinoic acid (RA) or using RA/inhibitor (inhibitor for cell division)) in culture cells of neural strain, NT2, revealed the following clones with elevated expression levels in the presence of RA:

5 HEMBA1000005, HEMBA1000042, HEMBA1000046, HEMBA1000076, HEMBA1000111,
HEMBA1000141, HEMBA1000150, HEMBA1000185, HEMBA1000282, HEMBA1000304,
HEMBA1000307, HEMBA1000338, HEMBA1000357, HEMBA1000376, HEMBA1000387,
HEMBA1000392, HEMBA1000428, HEMBA1000456, HEMBA1000459, HEMBA1000469,
10 HEMBA1000504, HEMBA1000508, HEMBA1000519, HEMBA1000540, HEMBA1000545,
HEMBA1000557, HEMBA1000563, HEMBA1000568, HEMBA1000575, HEMBA1000588,
HEMBA1000592, HEMBA1000604, HEMBA1000622, HEMBA1000655, HEMBA1000673,
HEMBA1000682, HEMBA1000726, HEMBA1000727, HEMBA1000749, HEMBA1000769,
HEMBA1000774, HEMBA1000791, HEMBA1000822, HEMBA1000872, HEMBA1000876,
15 HEMBA1000910, HEMBA1000942, HEMBA1000943, HEMBA1000960, HEMBA1000972,
HEMBA1000974, HEMBA1000991, HEMBA1001008, HEMBA1001020, HEMBA1001043,
HEMBA1001051, HEMBA1001060, HEMBA1001071, HEMBA1001077, HEMBA1001085,
HEMBA1001094, HEMBA1001109, HEMBA1001121, HEMBA1001122, HEMBA1001140,
HEMBA1001172, HEMBA1001226, HEMBA1001235, HEMBA1001265, HEMBA1001281,
20 HEMBA1001294, HEMBA1001299, HEMBA1001319, HEMBA1001323, HEMBA1001330,
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HEMBA1001398, HEMBA1001432, HEMBA1001435, HEMBA1001442, HEMBA1001454,
HEMBA1001455, HEMBA1001497, HEMBA1001517, HEMBA1001569, HEMBA1001570,
HEMBA1001581, HEMBA1001585, HEMBA1001620, HEMBA1001711, HEMBA1001718,
25 HEMBA1001723, HEMBA1001761, HEMBA1001815, HEMBA1001819, HEMBA1001861,
HEMBA1001864, HEMBA1001869, HEMBA1001888, HEMBA1001915, HEMBA1001918,
HEMBA1001940, HEMBA1001964, HEMBA1001967, HEMBA1001979, HEMBA1001987,
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HEMBA1002084, HEMBA1002102, HEMBA1002113, HEMBA1002144, HEMBA1002160,
30 HEMBA1002162, HEMBA1002185, HEMBA1002212, HEMBA1002226, HEMBA1002229,
HEMBA1002267, HEMBA1002270, HEMBA1002337, HEMBA1002381, HEMBA1002458,
HEMBA1002477, HEMBA1002508, HEMBA1002558, HEMBA1002561, HEMBA1002583,
HEMBA1002590, HEMBA1002628, HEMBA1002645, HEMBA1002661, HEMBA1002678,
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35 HEMBA1002934, HEMBA1002935, HEMBA1002939, HEMBA1002951, HEMBA1002968,
HEMBA1002970, HEMBA1002973, HEMBA1002999, HEMBA1003021, HEMBA1003033,
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HEMBA1003175, HEMBA1003197, HEMBA1003199, HEMBA1003202, HEMBA1003204,
40 HEMBA1003212, HEMBA1003235, HEMBA1003250, HEMBA1003273, HEMBA1003276,
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45 HEMBA1003637, HEMBA1003640, HEMBA1003645, HEMBA1003646, HEMBA1003656,
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50 HEMBA1003978, HEMBA1003987, HEMBA1003989, HEMBA1004000, HEMBA1004011,
HEMBA1004012, HEMBA1004015, HEMBA1004024, HEMBA1004049, HEMBA1004056,
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PLACE1001844, PLACE1001845, PLACE1001897, PLACE1001912, PLACE1001989,
PLACE1002004, PLACE1002066, PLACE1002072, PLACE1002119, PLACE1002150,
PLACE1002157, PLACE1002205, PLACE1002256, PLACE1002259, PLACE1002342,
PLACE1002438, PLACE1002450, PLACE1002474, PLACE1002477, PLACE1002499,
PLACE1002500, PLACE1002537, PLACE1002578, PLACE1002655, PLACE1002665,
PLACE1002722, PLACE1002815, PLACE1002834, PLACE1002851, PLACE1002881,
PLACE1002968, PLACE1002993, PLACE1003027, PLACE1003108, PLACE1003174,
PLACE1003200, PLACE1003205, PLACE1003249, PLACE1003256, PLACE1003302,
PLACE1003334, PLACE1003343, PLACE1003361, PLACE1003373, PLACE1003394,
PLACE1003420, PLACE1003516, PLACE1003519, PLACE1003575, PLACE1003584,
PLACE1003592, PLACE1003593, PLACE1003638, PLACE1003669, PLACE1003704,
PLACE1003723, PLACE1003760, PLACE1003762, PLACE1003768, PLACE1003771,
PLACE1003795, PLACE1003833, PLACE1003870, PLACE1003892, PLACE1003915,
PLACE1003968, PLACE1004103, PLACE1004149, PLACE1004156, PLACE1004256,
PLACE1004277, PLACE1004284, PLACE1004384, PLACE1004425, PLACE1004467,

PLACE1004471, PLACE1004473, PLACE1004510, PLACE1004629, PLACE1004658,
PLACE1004672, PLACE1004686, PLACE1004751, PLACE1004777, PLACE1004814,
PLACE1004815, PLACE1004824, PLACE1004827, PLACE1004836, PLACE1004840,
PLACE1004885, PLACE1004972, PLACE1004979,

5 PLACE1005027, PLACE1005046, PLACE1005055, PLACE1005085, PLACE1005102,
PLACE1005108, PLACE1005128, PLACE1005146, PLACE1005266, PLACE1005305,
PLACE1005374, PLACE1005409, PLACE1005453, PLACE1005477, PLACE1005481,
PLACE1005528, PLACE1005574, PLACE1005666, PLACE1005763, PLACE1005804,
PLACE1005828, PLACE1005834, PLACE1005850, PLACE1005851, PLACE1005934,
10 PLACE1006002, PLACE1006076, PLACE1006119, PLACE1006143, PLACE1006159,
PLACE1006164, PLACE1006170, PLACE1006187, PLACE1006223, PLACE1006239,
PLACE1006248, PLACE1006412, PLACE1006445, PLACE1006482, PLACE1006492,
PLACE1006521, PLACE1006540, PLACE1006617, PLACE1006629, PLACE1006673,
PLACE1006704, PLACE1006760, PLACE1006792, PLACE1006795, PLACE1006800,

15 PLACE1006860, PLACE1006904, PLACE1006961, PLACE1006962, PLACE1007045,
PLACE1007274, PLACE1007346, PLACE1007367, PLACE1007375, PLACE1007386,
PLACE1007416, PLACE1007450, PLACE1007454, PLACE1007478, PLACE1007484,
PLACE1007544, PLACE1007547, PLACE1007557, PLACE1007598, PLACE1007645,
PLACE1007677, PLACE1007743, PLACE1007807, PLACE1007829, PLACE1007858,
20 PLACE1008002, PLACE1008129, PLACE1008132, PLACE1008201, PLACE1008209,
PLACE1008273, PLACE1008368, PLACE1008532, PLACE1008568, PLACE1008696,
PLACE1008867, PLACE1008887, PLACE1008941, PLACE1009027, PLACE1009039,
PLACE1009050, PLACE1009099, PLACE1009155, PLACE1009172, PLACE1009174,
PLACE1009298, PLACE1009328, PLACE1009335, PLACE1009338, PLACE1009388,
25 PLACE1009444, PLACE1009595, PLACE1009596, PLACE1009607, PLACE1009621,
PLACE1009637, PLACE1009665, PLACE1009708, PLACE1009798, PLACE1009861,
PLACE1009886, PLACE1009971, PLACE1009995, PLACE1010089, PLACE1010102,
PLACE1010106, PLACE1010152, PLACE1010383, PLACE1010491, PLACE1010616,
PLACE1010630, PLACE1010631, PLACE1010702, PLACE1010739, PLACE1010761,
30 PLACE1010833, PLACE1010870, PLACE1010896, PLACE1010916, PLACE1010925,
PLACE1010942, PLACE1010954, PLACE1010965, PLACE1011041, PLACE1011046,
PLACE1011054, PLACE1011057, PLACE1011090, PLACE1011109, PLACE1011203,
PLACE1011214, PLACE1011296, PLACE1011340, PLACE1011433, PLACE1011452,
PLACE1011567, PLACE1011576, PLACE1011643, PLACE1011675, PLACE1011719,
35 PLACE1011729, PLACE1011749, PLACE1011762, PLACE1011783, PLACE1011874,
PLACE1011995,

PLACE2000017, PLACE2000021, PLACE2000033, PLACE2000039, PLACE2000047,
PLACE2000062, PLACE2000103, PLACE2000124, PLACE2000170, PLACE2000216,
PLACE2000235, PLACE2000264, PLACE2000302, PLACE2000305, PLACE2000335,
40 PLACE2000342, PLACE2000347, PLACE2000379, PLACE2000394, PLACE2000433,
PLACE2000450, PLACE2000465, PLACE3000103, PLACE3000119, PLACE3000121,
PLACE3000124, PLACE3000155, PLACE3000158, PLACE3000207, PLACE3000220,
PLACE3000242, PLACE3000271, PLACE3000304, PLACE3000322, PLACE3000331,
PLACE3000341, PLACE3000362, PLACE3000365, PLACE3000388, PLACE3000399,
45 PLACE3000400, PLACE3000401, PLACE3000402, PLACE3000425, PLACE3000455,
PLACE4000034, PLACE4000049, PLACE4000089, PLACE4000128, PLACE4000156,
PLACE4000222, PLACE4000250, PLACE4000320, PLACE4000379, PLACE4000431,
PLACE4000445, PLACE4000465, PLACE4000487, PLACE4000494, PLACE4000522,
PLACE4000558, PLACE4000581, PLACE4000650, PLACE4000654,

50 THYRO1000034, THYRO1000085, THYRO1000092, THYRO1000111, THYRO1000156,
THYRO1000163, THYRO1000173, THYRO1000190, THYRO1000197, THYRO1000221,
THYRO1000241, THYRO1000327, THYRO1000381, THYRO1000387, THYRO1000394,

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5 THYRO1000488, THYRO1000585, THYRO1000625, THYRO1000637, THYRO1000658,
 THYRO1000666, THYRO1000676, THYRO1000684, THYRO1000712, THYRO1000734,
 THYRO1000793, THYRO1000796, THYRO1000805, THYRO1000815, THYRO1000865,
 THYRO1000916, THYRO1000934, THYRO1000974, THYRO1000975, THYRO1001031,
 10 THYRO1001062, THYRO1001093, THYRO1001133, THYRO1001173, THYRO1001177,
 THYRO1001189, THYRO1001204, THYRO1001213, THYRO1001262, THYRO1001290,
 THYRO1001320, THYRO1001322, THYRO1001401, THYRO1001406, THYRO1001426,
 THYRO1001480, THYRO1001487, THYRO1001537, THYRO1001595, THYRO1001617,
 THYRO1001637, THYRO1001706, THYRO1001772, THYRO1001828, THYRO1001854,
 15 Y79AA1000059, Y79AA1000214, Y79AA1000355, Y79AA1000410, Y79AA1000538,
 Y79AA1000539, Y79AA1000705, Y79AA1000800, Y79AA1000850, Y79AA1000962,
 Y79AA1000976, Y79AA1001061, Y79AA1001068, Y79AA1001493, Y79AA1001548,
 Y79AA1001585, Y79AA1001594, Y79AA1001696, Y79AA1001711, Y79AA1002103,
 Y79AA1002115, Y79AA1002258, Y79AA1002361, Y79AA1002407, Y79AA1002472,
 Y79AA1002482

On the other hand, clones of which expression levels decreased by RA are as follows:
 HEMBA1000946, HEMBA1003569, HEMBA1005570, HEMBB1000915, NT2RM1000666,
 NT2RM2000092, NT2RM2000594, NT2RM2001256, NT2RM4001754, NT2RM4001905,
 NT2RP2001675, NT2RP2002047, NT2RP2005491, NT2RP3000980, NT2RP3002081,
 NT2RP3004594, NT2RP4001950, NT2RP4002408, OVARC1000431, OVARC1001942,
 OVARC1001943, PLACE1003190, PLACE1004868, PLACE1005923, PLACE1007257,
 PLACE1010624, Y79AA1000346

Clones of which expression levels increase by RA/inhibitor are as follows:

25 HEMBA1000046, HEMBA1000307, HEMBA1000434, HEMBA1000504, HEMBA1000588,
 HEMBA1000682, HEMBA1000726, HEMBA1000943, HEMBA1001071, HEMBA1001094,
 HEMBA1001122, HEMBA1001323, HEMBA1001361, HEMBA1001455, HEMBA1001709,
 HEMBA1001746, HEMBA1001869, HEMBA1002084, HEMBA1002583, HEMBA1002628,
 30 HEMBA1002801, HEMBA1002937, HEMBA1003096, HEMBA1003142, HEMBA1003229,
 HEMBA1003276, HEMBA1003309, HEMBA1003463, HEMBA1003597, HEMBA1003617,
 HEMBA1003725, HEMBA1003803, HEMBA1003879, HEMBA1003989, HEMBA1004000,
 HEMBA1004015, HEMBA1004024, HEMBA1004049, HEMBA1004056, HEMBA1004199,
 HEMBA1004248, HEMBA1004356, HEMBA1004554, HEMBA1004666, HEMBA1004725,
 35 HEMBA1004770, HEMBA1004803, HEMBA1004923, HEMBA1004934, HEMBA1004954,
 HEMBA1005039, HEMBA1005075, HEMBA1005113, HEMBA1005219, HEMBA1005232,
 HEMBA1005251, HEMBA1005304, HEMBA1005367, HEMBA1005372, HEMBA1005403,
 HEMBA1005410, HEMBA1005411, HEMBA1005548, HEMBA1005581, HEMBA1005631,
 HEMBA1005666, HEMBA1005755, HEMBA1005780, HEMBA1006067, HEMBA1006130,
 40 HEMBA1006364, HEMBA1006485, HEMBA1006559, HEMBA1006579, HEMBA1006754,
 HEMBB1000059, HEMBB1000575, HEMBB1000709, HEMBB1000822, HEMBB1000848,
 HEMBB1000852, HEMBB1000913, HEMBB1000985, HEMBB1001117, HEMBB1001210,
 HEMBB1001317, HEMBB1001394, HEMBB1001443, HEMBB1001668, HEMBB1001695,
 HEMBB1002049, HEMBB1002254, HEMBB1002266, HEMBB1002371, HEMBB1002502,
 45 HEMBB1002614, HEMBB1002617, HEMBB1002692, HEMBB1002697, MAMMA1000241,
 MAMMA1000424, MAMMA1000616, MAMMA1000731, MAMMA1000824,
 MAMMA1000908, MAMMA1000956, MAMMA1001038, MAMMA1001091,
 MAMMA1001243, MAMMA1001815, MAMMA1001820, MAMMA1002267,
 MAMMA1002769, MAMMA1002871, MAMMA1002941,
 50 NT2RM1000355, NT2RM1000725, NT2RM1000829, NT2RM1000850, NT2RM1000898,
 NT2RM2000504, NT2RM2000635, NT2RM2000718, NT2RM2000821, NT2RM2001370,
 NT2RM2001582, NT2RM2001592, NT2RM2001613, NT2RM2001632, NT2RM2001635,

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NT2RM2001648, NT2RM2001659, NT2RM2001671, NT2RM2001695, NT2RM2001760,
NT2RM2001782, NT2RM2001839, NT2RM2001879, NT2RM2001983, NT2RM4000104,
NT2RM4000290, NT2RM4000425, NT2RM4000433, NT2RM4000471, NT2RM4000531,
NT2RM4000852, NT2RM4001047, NT2RM4001347, NT2RM4001454, NT2RM4001557,
5 NT2RM4001566, NT2RM4001582, NT2RM4001938, NT2RM4001953, NT2RM4002018,
NT2RM4002409, NT2RM4002558, NT2RM4002594, NT2RP1000259, NT2RP1000418,
NT2RP1000574, NT2RP1000629, NT2RP1000782, NT2RP1000856, NT2RP1000943,
NT2RP1000988, NT2RP1001013, NT2RP1001173, NT2RP1001546, NT2RP2000091,
NT2RP2000208, NT2RP2000274, NT2RP2000329, NT2RP2000369, NT2RP2000634,
10 NT2RP2000842, NT2RP2000943, NT2RP2000987, NT2RP2001094, NT2RP2001277,
NT2RP2001290, NT2RP2001366, NT2RP2001423, NT2RP2001436, NT2RP2001467,
NT2RP2001506, NT2RP2001601, NT2RP2001663, NT2RP2001926, NT2RP2001985,
NT2RP2002032, NT2RP2002041, NT2RP2002046, NT2RP2002078, NT2RP2002124,
NT2RP2002185, NT2RP2002193, NT2RP2002312, NT2RP2002316, NT2RP2002426,
15 NT2RP2002457, NT2RP2002475, NT2RP2002520, NT2RP2002595, NT2RP2002643,
NT2RP2002672, NT2RP2002701, NT2RP2002710, NT2RP2002727, NT2RP2003099,
NT2RP2003121, NT2RP2003137, NT2RP2003158, NT2RP2003206, NT2RP2003230,
NT2RP2003272, NT2RP2003280, NT2RP2003347, NT2RP2003393, NT2RP2003401,
NT2RP2003445, NT2RP2003456, NT2RP2003511, NT2RP2003517, NT2RP2003543,
20 NT2RP2003596, NT2RP2003706, NT2RP2003871, NT2RP2004681, NT2RP2004743,
NT2RP2004775, NT2RP2004933, NT2RP2004967, NT2RP2005003, NT2RP2005270,
NT2RP2005289, NT2RP2005344, NT2RP2005453, NT2RP2005555, NT2RP2005767,
NT2RP2005853, NT2RP2006043, NT2RP2006393, NT2RP2006436, NT2RP2006441,
NT2RP2006467, NT2RP2006534, NT2RP2006565, NT2RP3000348, NT2RP3000359,
25 NT2RP3000366, NT2RP3000403, NT2RP3000418, NT2RP3000441, NT2RP3000561,
NT2RP3000759, NT2RP3000826, NT2RP3001007, NT2RP3001096, NT2RP3001126,
NT2RP3001355, NT2RP3001396, NT2RP3001449, NT2RP3001490, NT2RP3001679,
NT2RP3001727, NT2RP3001752, NT2RP3001777, NT2RP3001782, NT2RP3001799,
NT2RP3001854, NT2RP3001989, NT2RP3002142, NT2RP3002248, NT2RP3002343,
30 NT2RP3002484, NT2RP3002529, NT2RP3002549, NT2RP3002628, NT2RP3002687,
NT2RP3002688, NT2RP3002810, NT2RP3003032, NT2RP3003139, NT2RP3003193,
NT2RP3003203, NT2RP3003204, NT2RP3003210, NT2RP3003212, NT2RP3003264,
NT2RP3003282, NT2RP3003500, NT2RP3004041, NT2RP3004215, NT2RP4000147,
NT2RP4000259, NT2RP4000360, NT2RP4000448, NT2RP4000524, NT2RP4000588,
35 NT2RP4000879, NT2RP4000907, NT2RP4000989, NT2RP4001079, NT2RP4001150,
NT2RP4001219, NT2RP4001260, NT2RP4001274, NT2RP4001353, NT2RP4001547,
NT2RP4001677, NT2RP4002052, OVARC1000006, OVARC1000092, OVARC1000321,
OVARC1000384, OVARC1000408, OVARC1000414, OVARC1000520, OVARC1000526,
OVARC1000588, OVARC1000679, OVARC1000682, OVARC1000769, OVARC1000850,
40 OVARC1000862, OVARC1000886, OVARC1000984, OVARC1001000, OVARC1001004,
OVARC1001154, OVARC1001170, OVARC1001173, OVARC1001200, OVARC1001268,
OVARC1001376, OVARC1001419, OVARC1001425, OVARC1001476, OVARC1001480,
OVARC1001542, OVARC1001873, OVARC1001928, OVARC1001987, OVARC1002066,
OVARC1002082, OVARC1002112, OVARC1002127,
45 PLACE1000014, PLACE1000048, PLACE1000184, PLACE1000185, PLACE1000246,
PLACE1000292, PLACE1000332, PLACE1000347, PLACE1000564, PLACE1000656,
PLACE1000712, PLACE1001000, PLACE1001168, PLACE1001185, PLACE1001241,
PLACE1001294, PLACE1001311, PLACE1001395, PLACE1001570, PLACE1001608,
PLACE1001610, PLACE1001716, PLACE1001746, PLACE1001817, PLACE1001821,
50 PLACE1001844, PLACE1001897, PLACE1002066, PLACE1002119, PLACE1002157,
PLACE1002205, PLACE1002256, PLACE1002259, PLACE1002399, PLACE1002438,
PLACE1002474, PLACE1002477, PLACE1002500, PLACE1002514, PLACE1002578,

PLACE1002815, PLACE1002851, PLACE1002968, PLACE1003108, PLACE1003174,
 PLACE1003200, PLACE1003238, PLACE1003256, PLACE1003334, PLACE1003342,
 PLACE1003516, PLACE1003521, PLACE1003537, PLACE1003592, PLACE1003596,
 PLACE1003723, PLACE1003760, PLACE1003771, PLACE1003783, PLACE1003795,
 5 PLACE1003892, PLACE1003968, PLACE1004103, PLACE1004256, PLACE1004405,
 PLACE1004460, PLACE1004506, PLACE1004629, PLACE1004674, PLACE1004813,
 PLACE1004979, PLACE1005066, PLACE1005101, PLACE1005102, PLACE1005128,
 PLACE1005181, PLACE1005287, PLACE1005305, PLACE1005327, PLACE1005477,
 PLACE1005595, PLACE1005603, PLACE1005666, PLACE1005804, PLACE1005884,
 10 PLACE1005934, PLACE1006076, PLACE1006119, PLACE1006159, PLACE1006164,
 PLACE1006170, PLACE1006382, PLACE1006492, PLACE1006629, PLACE1006704,
 PLACE1006731, PLACE1006760, PLACE1006779, PLACE1006795, PLACE1006805,
 PLACE1006962, PLACE1007045, PLACE1007111, PLACE1007282, PLACE1007386,
 PLACE1007416, PLACE1007484, PLACE1007544, PLACE1007645, PLACE1007743,
 15 PLACE1007746, PLACE1007807, PLACE1007858, PLACE1008002, PLACE1008181,
 PLACE1008273, PLACE1008368, PLACE1008405, PLACE1008532, PLACE1008568,
 PLACE1008625, PLACE1008696, PLACE1008867, PLACE1009027, PLACE1009039,
 PLACE1009045, PLACE1009110, PLACE1009298, PLACE1009328, PLACE1009581,
 PLACE1009621, PLACE1009622, PLACE1009637, PLACE1009925, PLACE1009935,
 20 PLACE1010089, PLACE1010106, PLACE1010152, PLACE1010274, PLACE1010491,
 PLACE1010629, PLACE1010630, PLACE1010714, PLACE1010739, PLACE1010891,
 PLACE1010896, PLACE1010925, PLACE1010965, PLACE1011026, PLACE1011046,
 PLACE1011214, PLACE1011399, PLACE1011433, PLACE1011492, PLACE1011641,
 PLACE1011649, PLACE1011719, PLACE1011762, PLACE1011858, PLACE1011923,
 25 PLACE2000014, PLACE2000039, PLACE2000216, PLACE2000302, PLACE2000317,
 PLACE2000342, PLACE2000347, PLACE2000379, PLACE3000121, PLACE3000124,
 PLACE3000160, PLACE3000242, PLACE3000271, PLACE3000353, PLACE3000362,
 PLACE3000365, PLACE3000400, PLACE3000401, PLACE4000034, PLACE4000089,
 PLACE4000522, PLACE4000558,
 30 SKNMC1000050, THYRO1000040, THYRO1000197, THYRO1000241, THYRO1000327,
 THYRO1000394, THYRO1000488, THYRO1000501, THYRO1000585, THYRO1000596,
 THYRO1000625, THYRO1000805, THYRO1000934, THYRO1001133, THYRO1001134,
 THYRO1001173, THYRO1001213, THYRO1001262, THYRO1001290, THYRO1001721,
 Y79AA1000037, Y79AA1000800, Y79AA1000976, Y79AA1001078, Y79AA1001228,
 35 Y79AA1001299, Y79AA1001402, Y79AA1001585, Y79AA1001696, Y79AA1001711,
 Y79AA1001827, Y79AA1001875, Y79AA1002027, Y79AA1002211, Y79AA1002234,
 Y79AA1002258

On the other hand, clones of which expression levels decrease by RA/inhibitor are as follows:
 40 HEMBA1000012, HEMBA1000501, HEMBA1000946, HEMBA1003220, HEMBA1003403,
 HEMBA1003569, HEMBA1003591, HEMBA1003926, HEMBA1004168, HEMBA1004507,
 HEMBA1005009, HEMBA1005296, HEMBA1005528, HEMBA1005570, HEMBA1006467,
 HEMBA1006486, HEMBA1006492, HEMBA1007322, HEMBB1000055, HEMBB1000244,
 HEMBB1001665, MAMMA1000684, MAMMA1001139, MAMMA1001743, NT2RM1000257,
 45 NT2RM1000318, NT2RM1000539, NT2RM1000666, NT2RM2000092, NT2RM2000192,
 NT2RM2000371, NT2RM2000594, NT2RM4000511, NT2RM4001140, NT2RM4001754,
 NT2RM4001905, NT2RM4001940, NT2RM4002593, NT2RP1000086, NT2RP1000439,
 NT2RP1001073, NT2RP2000098, NT2RP2000965, NT2RP2001397, NT2RP2002047,
 NT2RP2004226, NT2RP2004396, NT2RP2004655, NT2RP2005126, NT2RP2005464,
 50 NT2RP2005712, NT2RP2005859, NT2RP2005890, NT2RP3000980, NT2RP3001383,
 NT2RP3001621, NT2RP3002081, NT2RP3002181, NT2RP3002244, NT2RP3002590,
 NT2RP3003059, NT2RP3004258, NT2RP3004378, NT2RP3004527, NT2RP3004594,

NT2RP4001760, NT2RP4001950, NT2RP4002047, NT2RP4002408, NT2RP5003459,
 OVARC1000004, OVARC1000035, OVARC1000431, OVARC1001051, OVARC1001129,
 OVARC1001176, OVARC1001261, OVARC1001342, OVARC1001942, OVARC1001943,
 PLACE1002171, PLACE1002465, PLACE1003190, PLACE1003375, PLACE1004128,
 5 PLACE1005026, PLACE1005876, PLACE1005923, PLACE1007257, PLACE1007375,
 PLACE1007507, PLACE1008941, PLACE1010624, PLACE1011090, PLACE1011219,
 THYRO1000270, Y79AA1000346, Y79AA1001541

These clones are also associated with neural differentiation and, therefore, are candidates for
 10 genes associated with neurological diseases.

For example, if the protein encoded by the cDNA of the present invention is a regulatory factor
 of cellular conditions such as growth and differentiation, it can be used for developing medicines
 as follows. The protein or antibody provided by the invention is injected into a certain kind of
 cells by microinjection. Then, using the cells, it is possible to screen low molecular weight
 15 compounds by measuring the change in the cellular conditions, or the activation or inhibition of a
 particular gene. The screening can be performed as follows. First, the protein is expressed and
 purified as recombinant. The purified protein is microinjected into cells such as various cell
 lines, or primary culture cells, and the cellular change such as growth and differentiation can be
 examined. Alternatively, the induction of genes whose expression is known to be associated
 20 with a particular change of cellular conditions may be detected by the amount of mRNA or
 protein. Or, the amount of intracellular molecules (low molecular weight compounds, etc.) that
 is changed by the function of the gene product (protein) which is known to be associated with a
 particular change of cellular conditions may be detected. The compounds to be screened (both
 low and high molecular compounds are acceptable) can be added to the culture media and
 25 assessed for their activity by measuring the change of the cellular conditions. Instead of
 microinjection, cell lines introduced with the gene obtained in the invention can be used for the
 screening. If the gene product is turn out to be associated with a particular change in the cellular
 conditions, the change of the product can be used as a measurement for screening. Once a
 compound is screened out which can activate or inhibit the function of the protein of the
 30 invention, it can be applied for developing medicines.

If the protein encoded by the cDNA of the present invention is a secretory protein, membrane
 protein, or protein associated with signal transduction, glycoprotein, transcription, or diseases, it
 can be used in functional assays for developing medicines.

In case of a membrane protein, it is most likely to be a protein that functions as a receptor or
 35 ligand on the cell surface. Therefore, it is possible to reveal a new relationship between a ligand
 and receptor by screening the membrane protein of the invention based on the binding activity
 with the known ligand or receptor. Screening can be performed according to the known methods.

For example, a ligand against the protein of the invention can be screened in the following
 manner. Namely, a ligand that binds to a specific protein can be screened by a method
 40 comprising the steps of: (a) contacting a test sample with the protein of the invention or a partial
 peptide thereof, or cells expressing these, and (b) selecting a test sample that binds to said protein,
 said partial peptide, or said cells.

On the other hand, for example, screening using cells expressing the protein of the present
 invention that is a receptor protein can also be performed as follows. It is possible to screen
 45 receptors that is capable of binding to a specific protein by using procedures (a) attaching the
 sample cells to the protein of the invention or its partial peptide, and (b) selecting cells that can
 bind to the said protein or its partial peptide.

In a following screening as an example, first the protein of the invention is expressed, and the
 recombinant protein is purified. Next, the purified protein is labeled, binding assay is
 50 performed using a various cell lines or primary cultured cells, and cells that are expressing a
 receptor are selected (Growth and differentiation factors and their receptors, Shin-Seikagaku
 Jikken Kouza Vol.7 (1991) Honjyo, Arai, Taniguchi, and Muramatsu edit, p203-236, Tokyo-

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Kagaku-Doujin). A protein of the invention can be labeled with RI such as ^{125}I , and enzyme (alkaline phosphatase etc.). Alternatively, a protein of the invention may be used without labeling and then detected by using a labeled antibody against the protein. The cells that are selected by the above screening methods, which express a receptor of the protein of the invention, can be used for the further screening of an agonists or antagonists of the said receptor.

Once the ligand binding to the protein of the invention, the receptor of the protein of the invention or the cells expressing the receptor are obtained by screening, it is possible to screen a compound that binds to the ligand and receptor. Also it is possible to screen a compound that can inhibit both bindings (agonists or antagonists of the receptor, for example) by utilizing the binding activities.

When the protein of the invention is a receptor, the screening method comprises the steps of (a) contacting the protein of the invention or cells expressing the protein of the invention with the ligand, in the presence of a test sample, (b) detecting the binding activity between said protein or cells expressing said protein and the ligand, and (c) selecting a compound that reduces said binding activity when compared to the activity in the absence of the test sample. Furthermore, when the protein of the invention is a ligand, the screening method comprises the steps of (a) contacting the protein of the invention with its receptor or cells expressing the receptor in the presence of samples, (b) detecting the binding activity between the protein and its receptor or the cells expressing the receptor, and (c) selecting a compound that can potentially reduce the binding activity compared to the activity in the absence of the sample.

Samples to screen include cell extracts, expressed products from a gene library, synthesized low molecular compound, synthesized peptide, and natural compounds, for example, but are not construed to be listed here. A compound that is isolated by the above screening using a binding activity of the protein of the invention can also be used as a sample.

A compound isolated by the screening may be a candidate to be an agonist or an antagonist of the receptor of the protein. By utilizing an assay that monitors a change in the intracellular signaling such as phosphorylation which results from reduction of the binding between the protein and its receptor, it is possible to identify whether the obtained compound is an agonist or antagonist of the receptor. Also, the compound may be a candidate of a molecule that can inhibit the interaction between the protein and its associated proteins (including a receptor) in vivo. Such compounds can be used for developing drugs for precaution or cures of a disease with which the protein is associated.

Secretory proteins may regulate cellular conditions such as growth and differentiation. It is possible to find out a novel factor that regulates cellular conditions by adding the secretory protein of the invention to a certain kind of cell, and performing a screening by utilizing the cellular changes in growth or differentiation, or activation of a particular gene.

The screening can be performed, for example, as follows. First, the protein of the invention is expressed and purified in a recombinant form. Then, the purified protein is added to a various kind of cell lines or primary cultured cells, and the change in the cell growth and differentiation is monitored. The induction of a particular gene that is known to be involved in a certain cellular change is detected by the amounts of mRNA and protein. Alternatively, the amount of an intracellular molecule (low-molecular-weight compounds, etc.) that is changed by the function of a gene product (protein) that is known to function in a certain cellular change is used for the detection.

Once the screening reveals that the protein of the invention can regulate cellular conditions or the functions, it is possible to apply the protein as a pharmaceutical and diagnostic medicine for associated diseases by itself or by altering a part of it into an appropriate composition.

As is above described for membrane proteins, the secretory protein provided by the invention may be used to explore a novel ligand-receptor interaction using a screening based on the binding activity to a known ligand or receptor. A similar method can be used to identify an agonist or antagonist. The resulting compounds obtained by the methods can be a candidate of a compound that can inhibit the interaction between the protein of the invention and an interacting molecule (including a receptor). The compounds may be able to use as a preventive, therapeutic, and diagnostic medicine for the diseases, in which the protein may play a certain role.

Proteins associated with signal transduction or transcription may be a factor that affects a certain protein or gene in response to intracellular/extracellular stimuli. It is possible to find out a novel factor that can affect a protein or gene by expressing the protein provided by the invention in a certain types of cells, and performing a screening utilizing the activation of a certain intracellular protein or gene.

The screening may be performed as follows. First, a transformed cell line expressing the protein is obtained. Then, the transformed cell line and the untransformed original cell line are compared for the changes in the expression of a certain gene by detecting the amount of its mRNA or protein. Alternatively, the amount of an intracellular molecule (low molecular weight compounds) that is changed by the function of a certain gene product (protein) may be used for the detection. Furthermore, the change of the expression of a certain gene can be detected by introducing a fusion gene that comprises a regulatory region of the gene and a marker gene (luciferase, beta-galactosidase, etc.) into a cell, expressing the protein provided by the invention into the cell, and estimating the activity of a marker gene product (protein).

If the protein or gene of the invention is associated with diseases, it is possible to screen a gene or compound that can regulate its expression and/or activity either directly or indirectly by utilizing the protein of the present invention.

For example, the protein of the invention is expressed and purified as a recombinant protein. Then, the protein or gene that interacts with the protein of the invention is purified, and screened based on the binding. Alternatively, the screening can be performed by adding with a compound of a candidate of the inhibitor added in advance and monitoring the change of binding activity. In another method, a transcription regulatory region locating in the 5'-upstream of the gene encoding the protein of the invention that is capable of regulating the expression of other genes is obtained, and fused with a marker gene. The fusion is introduced into a cell, and the cell is added with compounds to explore a regulatory factor of the expression of the said gene.

The compound obtained by the screening can be used for developing pharmaceutical and diagnostic medicines for the diseases with which the protein of the present invention is associated. Similarly, if the regulatory factor obtained in the screening is turn out to be a protein, compounds that can newly affect the expression or activity of the protein may be used as a medicine for the diseases with which the protein of the invention is associated.

If the protein of the invention has an enzymatic activity, regardless as to whether it is a secretory protein, membrane protein, or proteins associated with signal transduction, glycoprotein, transcription, or diseases, a screening may be performed by adding a compound to the protein of the invention and monitoring the change of the compound. The enzymatic activity may also be utilized to screen a compound that can inhibit the activity of the protein.

In a screening given as an example, the protein of the invention is expressed and the recombinant protein is purified. Then, compounds are contacted with the purified protein, and the amount of the compound and the reaction products is examined. Alternatively, compounds that are candidates of an inhibitor are pretreated, then a compound (substrate) that can react with the purified protein is added, and the amount of the substrate and the reaction products is examined.

The compounds obtained in the screening may be used as a medicine for diseases with which the protein of the invention is associated. Also they can be applied for tests that examine

whether the protein of the invention functions normally *in vivo*.

Whether the secretory protein, membrane protein, signal transduction-associated protein, glycoprotein-associated protein, or transcription-associated protein of the present invention is a novel protein associated with diseases or not is determined in another method than described above, by obtaining a specific antibody against the protein of the invention, and examining the relationship between the expression or activity of the protein and a certain disease. In an alternative way, it may be analyzed referred to the methods in "Molecular Diagnosis of Genetic Diseases" (Elles R. edit, (1996) in the series of "Method in Molecular Biology" (Humana Press).

Proteins associated with diseases are targets of screening as mentioned, and thus are very useful in developing drugs which regulate their expression and activity. Also, the proteins are useful in the medicinal industry as a diagnostic marker of the associated disease or a target of gene therapy.

Compounds isolated as mentioned above can be administered patients as it is, or after formulated into a pharmaceutical composition according to the known methods. For example, a pharmaceutically acceptable carrier or vehicle, specifically sterilized water, saline, plant oil, emulsifier, or suspending agent can be mixed with the compounds appropriately. The pharmaceutical compositions can be administered to patients by a method known to those skilled in the art, such as intraarterial, intravenous, or subcutaneous injections. The dosage may vary depending on the weight or age of a patient, or the method of administration, but those skilled in the art can choose an appropriate dosage properly. If the compound is encoded by DNA, the DNA can be cloned into a vector for gene therapy, and used for gene therapy. The dosage of the DNA and the method of its administration may vary depending on the weight or age of a patient, or the symptoms, but those skilled in the art can choose properly.

The present invention further relates to databases comprising at least a sequence of polynucleotide and/or protein, or a medium recorded in such databases, selected from the sequence data of the nucleotide and/or the amino acids indicated in Table 350 and Table 351.

The term "database" means a set of accumulated information as machine-searchable and readable information of nucleotide sequence. The databases of the present invention comprise at least one of the novel nucleotide sequences of polynucleotides provided by the present invention. The databases of the present invention can consist of only the sequence data of the novel polynucleotides provided by the present invention or can comprise other information on nucleotide sequences of known full-length cDNAs or ESTs. The databases of the present invention can be comprised of not only the information on the nucleotide sequences but also the information on the gene functions revealed by the present invention. Additional information such as names of DNA clones carrying the full-length cDNAs can be recorded or linked together with the sequence data in the databases.

The database of the present invention is useful for gaining complete gene sequence information from partial sequence information of a gene of interest. The database of the present invention comprises nucleotide sequence information of full-length cDNAs. Consequently, by comparing the information in this database with the nucleotide sequence of a partial gene fragment yielded by differential display method or subtraction method, the information on the full-length nucleotide sequence of interest can be gained from the sequence of the partial fragment as a starting clue.

The sequence information of the full-length cDNAs constituting the database of the present invention contains not only the information on the complete sequences but also extra information on expression frequency of the genes as well as homology of the genes to known genes and known proteins. Thus the extra information facilitates rapid functional analyses of partial gene fragments. Further, the information on human genes is accumulated in the database of the present invention, and therefore, the database is useful for isolating a human homologue of a

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gene originating from other species. The human homologue can be isolated based on the nucleotide sequence of the gene from the original species.

At present, information on a wide variety of gene fragments can be obtained by differential display method and subtraction method. In general, these gene fragments are utilized as tools for isolating the full-length sequences thereof. When the gene fragment corresponds to an already-known gene, the full-length sequence is easily obtained by comparing the partial sequence with the information in known databases. However, when there exists no information corresponding to the partial sequence of interest in the known databases, cDNA cloning should be carried out for the full-length cDNA. It is often difficult to obtain the full-length nucleotide sequence using the partial sequence information as an initial clue. If the full-length of the gene is not available, the amino acid sequence of the protein encoded by the gene remains unidentified. Thus the database of the present invention can contribute to the identification of full-length cDNAs corresponding to gene fragments, which cannot be revealed by using databases of known genes.

The present invention has provided 5602 novel full-length cDNA clones, and primers for synthesizing the cDNA. As has not yet proceeded the isolation of full-length cDNA within the human, the invention has great significance. The full-length cDNA clones contain the translation initiation site, and thus provide a useful information for analysis of protein functions.

The cDNA clones are assumed to encode proteins such as secretory proteins, membrane proteins, signal transduction-associated protein, glycoprotein-associated protein, or transcription-associated protein, etc., which have important functions in vivo, and also predicted to be associated with many diseases. The genes and proteins associated with diseases are useful for developing a diagnostic marker or medicines for regulation of their expression and activity, or as a target of gene therapy.

The invention is illustrated more specifically with reference to the following examples, but is not to be construed as being limited thereto.

EXAMPLE 1

Construction of a cDNA library by the oligo-capping method.

The NT-2 neuron progenitor cells (Stratagene), a teratocarcinoma cell line from human embryo testis, which can differentiate into neurons by the treatment with retinoic acid were used. The NT-2 cells were cultured according to the manufacturer's instructions as follows.

- (1) NT-2 cells were cultured without induction by retinoic acid treatment (NT2RM1, NT2RM2, NT2RM4).
- (2) After cultured, NT-2 cells were induced by adding retinoic acid, and then were cultured for 48 hours (NT2RP1).
- (3) After cultured, NT-2 cells were induced by adding retinoic acid, and then were cultured for 2 weeks (NT2RP2, NT2RP3, NT2RP4, NT2RP5).

Also, the human neuroblastoma cell line SK-N-MC (ATCC HTB-10) (SKNMC1), and human retinoblastoma cell line Y79 (ATCC HTB-18) (Y79AA1) were cultured according to the culture conditions described in the ATCC catalogue (<http://www.atcc.org/>). The cells were harvested separately, and mRNA was extracted from each cell by the method described in the literature (Molecular Cloning 2nd edition. (1989) Sambrook J., Fritsch, E.F., and Maniatis T., Cold Spring Harbor Laboratory Press). Furthermore, poly(A)⁺RNA was purified from the mRNA using oligo-dT cellulose.

Similarly, human placenta (PLACE1, PLACE2, PLACE3, PLACE4), human ovary cancer tissue (OVARC1), tissues from human embryo at 10 weeks, which is enriched with head (HEMBA1), or body (HEMBB1), human mammary gland (MAMMA1), human thyroid gland

(THYRO1), and primary cultured cells of human blood vessel endothelium (VESEN1) were used to extract mRNA by the method described in the literature (Molecular Cloning 2nd edition. (1989) Sambrook J., Fritsch, E.F., and Maniatis T., Cold Spring Harbor Laboratory Press). Furthermore, poly(A)⁺RNA was purified from the mRNA using oligo-dT cellulose.

Each poly(A)⁺RNA was used to construct a cDNA library by the oligo-capping method (Maruyama M. and Sugano S. (1994) *Gene*, 138: 171-174). Using the Oligo-cap linker (SEQ ID NO: 10464) and the Oligo-dT primer (SEQ ID NO: 10465), bacterial alkaline phosphatase (BAP) treatment, tobacco acid phosphatase (TAP) treatment, RNA ligation, the first strand cDNA synthesis, and removal of RNA were performed as described in the reference (Suzuki and Kanno (1996) *Protein Nucleic acid and Enzyme*, 41: 197-201; Suzuki Y. et al. (1997) *Gene*, 200: 149-156). Next, 5'- and 3'-PCR primers (SEQ ID NO: 10466, and 10467, respectively) were used for performing PCR to convert the cDNA into double stranded cDNA, which was then digested with SfiI. Then, the DraIII-cleaved pUC19FL3 vector (Figure 1; for NT2RM1, and NT2RP1), or the DraIII-cleaved pME18SFL3 (Figure 1) (GenBank AB009864, expression vector; for NT2RM2, NT2RM4, NT2RP2, NT2RP3, NT2RP4, NT2RP5, SKNMC1, Y79AA1, PLACE1, PLACE2, PLACE3, PLACE4, OVARC1, HEMBA1, HEMBB1, MAMMA1, THYRO1, and VESEN1) was used for cloning the cDNA in a unidirectional manner, and cDNA libraries were obtained. The nucleotide sequence of the 5'- and 3'- ends of the cDNA clones was analyzed with a DNA sequencer (ABI PRISM 377, PE Biosystems) after sequencing reactions were performed with the DNA sequencing reagents (Dye Terminator Cycle Sequencing FS Ready Reaction Kit, dRhodamine Terminator Cycle Sequencing FS Ready Reaction Kit, or BigDye Terminator Cycle Sequencing FS Ready Reaction Kit, PE Biosystems), according to the instructions. The data were compiled into a database.

The full-length-enriched cDNA libraries except those for NT2RM1 and NT2RP1 were constructed using eukaryotic expression vector pME18SFL3. The vector contains SR α promoter and SV40 small t intron in the upstream of the cloning site, and SV40 polyA added signal sequence site in the downstream. As the cloning site of pME18SFL3 has asymmetrical DraIII sites, and the ends of cDNA fragments contain SfiI sites complementary to the DraIII sites, the cloned cDNA fragments can be inserted into the downstream of the SR α promoter unidirectionally. Therefore, clones containing full-length cDNA can be expressed transiently by introducing the obtained plasmid directly into COS cells. Thus, the clones can be analyzed very easily in terms of the proteins that are the gene products of the clones, or in terms of the biological activities of the proteins.

Herein, the cDNA libraries and the name of each clone are related as shown in Table 3. Therein, "xxxxxx" represents the clone number of six digits. Thus, the sequences are named by the library name, the clone number plus F- for the 5'-end, or R- for the 3'-end.

Table 3

library: clone	5'-end sequence	3'-end sequence
NT2RM1:		
NT2RM1xxxxxx	F-NT2RM1xxxxxx	
NT2RP1:		
NT2RP1xxxxxx	F-NT2RP1xxxxxx	
NT2RM2:		
NT2RM2xxxxxx	F-NT2RM2xxxxxx	R-NT2RM2xxxxxx
NT2RM4:		
NT2RM4xxxxxx	F-NT2RM4xxxxxx	R-NT2RM4xxxxxx

NT2RP2:			
	NT2RP2xxxxxx	F-NT2RP2xxxxxx	R-NT2RP2xxxxxx
NT2RP3:			
	NT2RP3xxxxxx	F-NT2RP3xxxxxx	R-NT2RP3xxxxxx
5	NT2RP4:		
	NT2RP4xxxxxx	F-NT2RP4xxxxxx	R-NT2RP4xxxxxx
NT2RP5:			
	NT2RP5xxxxxx	F-NT2RP5xxxxxx	R-NT2RP5xxxxxx
SKNMC1:			
10	SKNMC1xxxxxx	F-SKNMC1xxxxxx	R-SKNMC1xxxxxx
Y79AA1:			
	Y79AA1xxxxxx	F-Y79AA1xxxxxx	R-Y79AA1xxxxxx
PLACE1:			
	PLACE1xxxxxx	F-PLACE1xxxxxx	R-PLACE1xxxxxx
15	PLACE2:		
	PLACE2xxxxxx	F-PLACE2xxxxxx	R-PLACE2xxxxxx
PLACE3:			
	PLACE3xxxxxx	F-PLACE3xxxxxx	R-PLACE3xxxxxx
PLACE4:			
20	PLACE4xxxxxx	F-PLACE4xxxxxx	R-PLACE4xxxxxx
OVARC1:			
	OVARC1xxxxxx	F-OVARC1xxxxxx	R-OVARC1xxxxxx
HEMBA1:			
	HEMBA1xxxxxx	F-HEMBA1xxxxxx	R-HEMBA1xxxxxx
25	HEMBB1:		
	HEMBB1xxxxxx	F-HEMBB1xxxxxx	R-HEMBB1xxxxxx
MAMMA1:			
	MAMMA1xxxxxx	F-MAMMA1xxxxxx	R-MAMMA1xxxxxx
THYR01:			
30	THYR01xxxxxx	F-THYR01xxxxxx	R-THYR01xxxxxx
VESEN1:			
	VESEN1xxxxxx	F-VESEN1xxxxxx	R-VESEN1xxxxxx

EXAMPLE 2

Estimation of the fullness ratio at the 5'-ends of the clones contained in the cDNA libraries constructed by the oligo-capping method.

The fullness ratio at the 5'-end sequence of the 59,823 clones in the human cDNA libraries constructed by the oligo-capping method was determined as follows. Of all the clones whose 5'-end sequences were found in those of known human mRNA in the public database, a clone was judged to be "full-length", if it had a longer 5'-end sequence than that of the known human mRNA, or, even though the 5'-end sequence was shorter, if it contained the translation initiation codon. A clone which did not contain the translation initiation codon was judged to be "not-full-length". The fullness ratio ((the number of full-length clones)/(the number of full-length and not-full-length clones)) at the 5'-end of the cDNA clones from each library was determined by comparing with the known human mRNA. As a result, the fullness ratio of the 5'-ends was 63.5%. The result indicates that the fullness ratio at the 5'-end sequence was extremely high.

EXAMPLE 3

Assessment of the fullness ratio of the 5'-end of the cDNA
by the ATGpr and the ESTiMateFL.

The ATGpr, developed by Salamov A.A., Nishikawa T., and Swindells M.B. in the Helix
Research Institute, is a program for prediction of the translation initiation codon based on the
characteristics of the sequences in the vicinity of the ATG codon. The results are shown with
expectations (also described as ATGpr1 below) that an ATG is a true initiation codon (0.05-0.94)
(can be described as ATGpr1). When the program was applied to the 5'-end sequences of the
clones from the cDNA library that was obtained by the oligo-capping method and that had 65%
fullness ratio, the sensitivity and specificity of estimation of a full-length clone (clone containing
the N-terminal end of ORF) were improved to 82-83% by selecting only clones having the
ATGpr1 score 0.6 or higher.

Furthermore, the program was used to assess the fullness of 18,959 clones in the human
libraries obtained here, which have 5'-ends matched to a known human mRNA.

Briefly, the maximal ATGpr1 score of the clones was determined, and then their 5'-end
sequence was compared with the known human mRNA to estimate whether the clone is full-
length or not. The result is shown in Table 4.

Based on the knowledge that known mRNAs, in general, are highly expressed in the cell,
similar estimation was performed with genes having a low number in the EST hit, which
represent relatively low abundant mRNAs, and the result is shown in Table 5.

In the table, the number of full-length clones indicate that of clones containing the N-terminal
end of ORF, and so does the number of not-full-length clones that of clones without the N-
terminal end of ORF. The fullness ratio represents (the number of full-length clones)/(the
number of full-length clones plus the number of not-full-length clones).

Table 4

The maximal ATGpr1 score and the fullness ratio of the 5'-end sequences of clones obtained
from human cDNA libraries constructed by the oligo-capping method; clones having a matched
5'-end with that of a known mRNA.

maximal ATGpr1 score	number of (full-length clones plus not-full-length clones)	number of full-length clones	fullness ratio
>=0.70	11,193	9,346	83.5%
>=0.50	13,369	10,549	78.9%
>=0.30	15,489	11,340	73.2%
>=0.15	17,394	11,811	67.9%
>=0.00	18,959	12,046	63.5%

Table 5

The maximal ATGpr1 score and the fullness ratio of the 5'-end sequences of the clones
obtained from human cDNA libraries constructed by the oligo-capping method; clones having 5
EST hits or less among the clones having a matched 5'-end with that of a known mRNA.

maximal ATGpr1 score	number of (full-length clones plus not-full-length clones)	number of full-length clones	fullness ratio
>=0.70	2,801	1,934	69.0%

By the method, a cDNA clone is judged to be most likely not to be full-length if there exist any ESTs which have longer 5'-end or 3'-end sequences than the clone. The method is systematized for high throughput analysis. A clone is judged to be full-length if the clone has a longer 5'-end sequence than ESTs in the public database. Even if a clone has a shorter 5'-end, the clone is judged to be full-length if the difference in length is within 50 bases, and otherwise judged not to be full-length, for convenience.

The precision of the estimation by comparing with ESTs is improved with increasing number of ESTs to be compared. However, in case that a limited number of ESTs are available, the reliability becomes low. Thus, the method is effective in excluding clones with high probability of being not-full-length, from the cDNA clones that is synthesized by the oligo-capping method and that have the 5'-end sequences with about 60 % fullness ratio. In particular, the ESTiMateFL is efficiently used to estimate the fullness ratio at the 3'-end sequence of cDNA of a human unknown mRNA which has a significant number of EST deposits in the public database.

Therein, the number of being full-length, the number of being not full-length, and the fullness ratio indicate the number of the clones that contain the N-terminus of the ORF, the number of the clones that do not contain the N-terminus of the ORF, and (the number of being full-length)/(the number of being full-length plus (the number of being not full-length)), respectively.

The maximal ATGpr1 score and the fullness ratio of the 5'-end sequence in the clones isolated

from human cDNA libraries constructed by the oligo-capping method, which have the 5'-end sequence matched with a known human mRNA, and also other than those being not full-length according to the comparison with ESTs.

5	maximal ATGpr1 score	number of (full-length clones plus not-full-length clones)	number of full-length clones	fullness ratio
	≥ 0.70	9,068	8,349	92.1%
10	≥ 0.50	10,345	9,318	90.1%
	≥ 0.30	11,425	9,964	87.2%
	≥ 0.15	12,254	10,335	84.3%
	≥ 0.00	12,785	10,484	82.0%

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Table 7

Maximal ATGpr1 score and fullness ratio of the 5'-end sequence of the clones, which were isolated from the human cDNA libraries constructed by the oligo-capping method, whose 5'-end sequence is identical to a known human mRNA, in which the number of the EST hit is not more than 5.

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	maximal ATGpr1 score	number of (full-length clones plus not-full-length clones)	number of full-length clones	fullness ratio
	≥ 0.70	1,959	1,510	77.1%
	≥ 0.50	2,469	1,821	73.8%
	≥ 0.30	2,975	2,046	68.8%
	≥ 0.15	3,368	2,164	64.3%
	≥ 0.00	3,661	2,226	60.8%

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The 19,226 clones, isolated from the human cDNA libraries constructed by the oligo-capping method, whose 5'-end sequence is identical to that of a known human mRNA were estimated by the ATGpr2, and the correlation between the score and the fullness ratio was estimated. Specifically, the maximal ATGpr2 score of the clones identical to a known human mRNA was determined, and then their fullness ratio was estimated by comparing the 5'-ends with ORF of known human mRNA. The result was shown in Table 8.

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Table 8

Maximal ATGpr2 score and fullness ratio of the 5'-end sequence of the clones, which are isolated from the human cDNA libraries constructed by the oligo-capping method, whose 5'-end sequence is identical to a known human mRNA.

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	maximal ATGpr2 score	number of (full-length clones plus not-full-length clones)	number of full-length clones	fullness ratio
	≥ 0.30	10,748	8,031	74.7%
	≥ 0.15	16,383	11,226	68.5%
	≥ 0.00	19,226	12,285	63.9%

According to the above results, it was found that, in case of using clones isolated from human cDNA libraries constructed by the oligo-capping method, the fullness ratio of the clones that have low score in the ATGpr can be improved by estimating their 5'-end sequence using the combination of the ATGpr and the ESTiMateFL. Therefore, the method was applied to select a cDNA clone with high fullness ratio.

EXAMPLE 4

Clustering of the 5'-end and 3'-end sequences of cDNA clones.

The 5'-end and 3'-end sequences of cDNA clones were obtained, and clustered separately. The single pass data of the nucleotide sequence of the 5'-end and 3'-end was subject to the BLAST search between the sequence data of all the clones synthesized in example 1, and the clones considered to be originating from the same gene were put together into a group. If the 5'-end of a clone contains the consensus sequence of 300 bases or more with identity 95% or more, or the 3'-end contains the consensus sequence of 200 bases or more and having identity 90% or more, the clones were put in the same group.

The groups of the 5'-end sequence and the 3'-end sequence were further clustered so as that the groups from the same clone can be in the same group (cluster).

EXAMPLE 5

Characterization of the cloned sequence.

The data of the 5'-end sequence of the cloned sequence was characterized by the following way:

- (1) examining whether it is identical to those of mRNA from human and other species (including authorized sequences) and human EST by the BLAST homology search of the GenBank,
- (2) examining whether it has longer 5'-end than those of human mRNA and human EST,
- (3) determining the scores in the ATGpr1 and ATGpr2 programs of all the initiation codons in the 5'-end sequence, and
- (4) determining the number of the human EST clone(s) that is judged to be identical by the BLAST homology search of the GenBank.

The data of the 3'-end sequence of the cloned sequence was characterized by the above (1) and (4).

These characterized data were used for the final selection of the clones.

EXAMPLE 6

Identity to the human mRNA and human EST, and comparison of the length of the 5'-end.

The 5'-end and 3'-end sequences of the cloned sequence was judged to be identical to those of mRNA from human or other species when the sequence to compare has the length of 200 bases or longer, and the obtained homology is 94% or more. The 5'-end and 3'-end sequences of the cloned sequence was judged to be identical to those of human EST when the sequence to compare has the length of 200 bases or longer, and the obtained homology is 90% or more.

The sequence of the clone was judged to be full-length in comparison with human mRNA when the sequence has longer 5'-end, or it contains the translation initiation site. The sequence of the clone was judged to be full-length in comparison with human EST in the database when the sequence has longer 5'-end, or while it has shorter end, the difference in length between the two sequences is 50 bases or less. The other clones were judged to be not full-length.

EXAMPLE 7

Prediction of the fullness ratio by the ATGpr.

The score in the ATGpr1 is the expectation to be full-length based on calculations, and the

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higher score reflects the higher probability to be full-length as shown in Example 3. The maximal ATGpr1 score and the maximal ATGpr2 score represent the score obtained with all the initiation codons contained in the 5'-end sequence of the cloned sequence, and were used for the characterization.

EXAMPLE 8

Prediction of the novelty using the number of the identical ESTs by the homology search.

For both the 5'-end and 3'-end sequences of the clones, the number of the identical ESTs was determined by the homology search on the GenBank. Human ESTs were judged to be identical when the EST has a sequence of 200 nucleotides or more with 90% or more matching with the 5'-end sequence. The number of the identical ESTs were used for characterization and as an index of novelty. The clone having not identical sequence at the 5'-end and 3'-end sequences to those of mRNA as well as those of ESTs is a gene encoding a novel protein. Similarly, a clone having either the 5'-end or the 3'-end sequences, which has low number of the identical ESTs, is judged to be a gene encoding a novel protein.

EXAMPLE 9

Characterization of clusters.

The clusters of the groups of the 5'-end and 3'-end sequences were characterized according to the following criteria.

- (1) Whether it is identical to the mRNA sequences from human or other species (including authorized sequences), or human ESTs by the BLAST search of the GenBank.
A cluster containing at least one sequence of all the 5'-end and 3'-end sequences, which is identical to one of the mRNA sequences, was regarded to be the same cluster of the mRNA sequence.
- (2) Whether it has longer 5'-end than human mRNA sequence and human ESTs.
When all the 5'-end sequences contained in a cluster are judged to be not full-length compared with the mRNA sequences and human ESTs, the cluster was regarded as being not full-length.
- (3) The scores in the ATGpr1 and ATGpr2 using all the initiation codons contained in the 5'-end sequences.
The maximal ATGpr1 score among those of all the 5'-end sequences in a cluster was determined as the ATGpr1 score of the cluster. The ATGpr2 score of the cluster was also determined in the same way.
- (4) The number of the identical human ESTs determined by the BLAST search of the GenBank.

The maximum number was determined in the numbers of ESTs identical to each of 5'-end sequences contained in a cluster. The number of the ESTs identical to the 5'-end sequences in the cluster was defined as the maximum number. The number of the ESTs identical to the 3'-end sequences in a cluster was determined in the same way.

EXAMPLE 10

Methods for selection of the clusters by the characteristics.

Data obtained by the characterization described above was used to discard the clusters that are identical to any mRNA sequence from human and other species (including authorized sequences), or those clusters that are not full-length. From the rest of the clusters, the clusters that fulfill any of the following conditions were selected.

- (a) A cluster in which the number of the identical ESTs for the 5'-end sequence is 20 or less, and the ATGpr1 score exceeds 0.3.
- (b) A cluster having the ATGpr1 score not more than 0.3, in which the number of the identical

ESTs for both the 5'-end sequence and the 3'-end sequence is 5 or less, and multiple clones are contained.

(c) A cluster having the ATGpr1 score not more than 0.3, in which the number of the identical ESTs for the 5'-end sequence is 0, and the number of the identical ESTs for the 3'-end sequence is not less than 1.

(d) A cluster having the ATGpr1 score not more than 0.3, in which the number of the identical ESTs for the 5'-end sequence is not less than 1 and not more than 5, and the number of the identical ESTs for the 3'-end sequence is 0.

The clusters selected by (a) contain at least one clone that is novel and having high fullness ratio. The clusters selected by (b), (c), and (d) contain at least one clone that is novel and having low fullness ratio, but is still full-length.

EXAMPLE 11

Methods for selection of clones from clusters.

In the clusters comprising a single clone, the clone was selected.

In the clusters comprising multiple clones, in which multiple clones have the ATGpr1 score higher than 0.3, a clone with the highest score was selected.

In the clusters comprising multiple clones, in which multiple clones have the ATGpr1 score not more than 0.3, a clone with the highest ATGpr2 score was selected, if the score was higher than 0.3.

In the clusters comprising multiple clones, in which the clones have the scores not more than 0.3 in both the ATGpr1 and the ATGpr2, a clone with the highest scores in both the ATGpr1 and ATGpr2 was selected.

In the clusters comprising multiple clones, in which the above selection by the ATGpr score was not applicable, selected was a clone having longer 5'-end by assembling the 5'-end sequence, 3'-end sequence, and human ESTs. For assembling, the SequencherTM (Hitachi Soft Engineering) was used. When even the selection by assembling failed, all the clones were judged to be full-length.

As a result, 3690 clones were the clones that have the maximal ATGpr1 score higher than 0.3. On the other hand, 477 clones were the clones that have the maximal ATGpr1 score not more than 0.3, and the maximal ATGpr2 score higher than 0.3. The number of the clones having the highest scores in both the ATGpr1 and ATGpr2, while the scores were not more than 0.3, were 97. The number of the clones which were not selected by the ATGpr scores, but were selected by assembling the 5'-end sequence, 3'-end sequence, and human ESTs, were 117. The clones that have the score in both the ATGpr1 and ATGpr2 not more than 0.3, but were selected because the cluster comprises a single clone, were 1166. In the clones, at least either of the 5'-end or 3'-end sequence was not identical to any of human ESTs. Some clones were selected because the cluster comprises a single clone, or by assembling, in which there is no ATG codon (9 clones: HEMBA1001960, HEMBA106569, HEMBB1001454, NT2PR2002839, NT2RP2005325, NT2RP2006323, PLACE1004506, PLACE1005526, and THYRO1001177). The sequences that do not contain the ATG codon were considered to be corresponding to the 5'-UTR. Although the clones do not have the scores in the ATGpr1 and ATGpr2, the clones were yet judged to be full-length according to the fullness ratio, as shown in Table 4, 5, 6, 7, and 8. The above clones that were finally judged to be full-length were classified into 11 groups according to the following criteria.

Group (1): 1516 clones

Among the 3690 clones having the maximal ATGpr1 score higher than 0.3, the following 1516 clones were having high fullness ratio and a novel clone, in which at least either of the 5'-end or 3'-end sequence, or both of them were not identical to any of human ESTs.

HEMBA1000046, HEMBA1000050, HEMBA1000129, HEMBA1000150, HEMBA1000158, HEMBA1000193

, HEMBA1000201, HEMBA1000216, HEMBA1000227, HEMBA1000288, HEMBA1000290, HEMBA100030
 3, HEMBA1000304, HEMBA1000369, HEMBA1000392, HEMBA1000396, HEMBA1000488, HEMBA10005
 05, HEMBA1000508, HEMBA1000534, HEMBA1000542, HEMBA1000594, HEMBA1000637, HEMBA1000
 657, HEMBA1000752, HEMBA1000867, HEMBA1000869, HEMBA1000872, HEMBA1000910, HEMBA100
 5 0918, HEMBA1000919, HEMBA1000942, HEMBA1000968, HEMBA1000975, HEMBA1000986, HEMBA10
 01022, HEMBA1001043, HEMBA1001052, HEMBA1001080, HEMBA1001085, HEMBA1001109, HEMBA1
 001140, HEMBA1001174, HEMBA1001235, HEMBA1001286, HEMBA1001302, HEMBA1001398, HEMBA
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 , HEMBA1002161, HEMBA1002177, HEMBA1002189, HEMBA1002191, HEMBA1002199, HEMBA100222
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Group (2): 377 clones

Among the 3690 clones, the following 377 clones were full-length, and a novel clone, in which the number of the identical human ESTs for both the 5'-end and 3'-end sequences is 1 or higher and not more than 5.

HEMBA1000156, HEMBA1000231, HEMBA1000244, HEMBA1000302, HEMBA1000523, HEMBA1000531, HEMBA1000555, HEMBA1000568, HEMBA1000971, HEMBA1001009, HEMBA1001133, HEMBA1001137, HEMBA1001257, HEMBA1001281, HEMBA1001289, HEMBA1001310, HEMBA1001377, HEMBA1001388, HEMBA1001413, HEMBA1001455, HEMBA1001579, HEMBA1001702, HEMBA1001781, HEMBA1001804, HEMBA1001819, HEMBA1001864, HEMBA1001869, HEMBA1001912, HEMBA1001915, HEMBA1002084, HEMBA1002102, HEMBA1002212, HEMBA1002495, HEMBA1002513, HEMBA1002863, HEMBA100

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Group (3): 1797 clones

Among the 3690 clones, the following 1797 clones were full-length, and novel clones, in which the number of the identical human ESTs for the 5'-end sequence is not more than 20 (except clones in which at least either of the 5'-end or 3'-end sequence, or both of them are not identical to any of human ESTs, and clones in which the number of the identical human ESTs for both the 5'-end and 3'-end sequences is 1 or higher and not more than 5).

HEMBA1000005, HEMBA1000012, HEMBA1000020, HEMBA1000030, HEMBA1000076, HEMBA1000141, HEMBA1000168, HEMBA1000185, HEMBA1000307, HEMBA1000327, HEMBA1000356, HEMBA1000387, HEMBA1000456, HEMBA1000460, HEMBA1000490, HEMBA1000491, HEMBA1000501, HEMBA1000520, HEMBA1000561, HEMBA1000588, HEMBA1000591, HEMBA1000592, HEMBA1000608, HEMBA1000636, HEMBA1000682, HEMBA1000686, HEMBA1000719, HEMBA1000727, HEMBA1000817, HEMBA1000851, HEMBA1000946, HEMBA1001008, HEMBA1001059, HEMBA1001088, HEMBA1001122, HEMBA1001197, HEMBA1001213, HEMBA1001247, HEMBA1001303, HEMBA1001326, HEMBA1001351, HEMBA1001361, HEMBA1001387, HEMBA1001405, HEMBA1001450, HEMBA1001526, HEMBA1001569, HEMBA1001595, HEMBA1001620, HEMBA1001655, HEMBA1001672, HEMBA1001711, HEMBA1001714, HEMBA1001723, HEMBA1001809, HEMBA1001824, HEMBA1001847, HEMBA1001913, HEMBA1001921, HEMBA1001939, HEMBA1001950, HEMBA1001967, HEMBA1002150, HEMBA1002151, HEMBA1002215, HEMBA1002241, HEMBA1002267, HEMBA1002341, HEMBA1002458, HEMBA1002460, HEMBA1002462, HEMBA1002469, HEMBA1002475, HEMBA1002542, HEMBA1002569, HEMBA1002583, HEMBA1002609, HEMBA1002624, HEMBA1002696, HEMBA1002768, HEMBA1002770, HEMBA1002777, HEMBA1002779, HEMBA1002794, HEMBA1002810, HEMBA1002816, HEMBA1002818, HEMBA1002876, HEMBA1002937, HEMBA1002939, HEMBA1002951, HEMBA1002954, HEMBA1003033, HEMBA1003046, HEMBA1003096, HEMBA1003136, HEMBA1003148, HEMBA1003179, HEMBA1003222, HEMBA1003281, HEMBA1003286, HEMBA1003369, HEMBA1003403, HEMBA1003408, HEMBA1003417, HEMBA1003418, HEMBA1003447, HEMBA1003463, HEMBA1003528, HEMBA1003555, HEMBA1003560, HEMBA1003569, HEMBA1003591, HEMBA1003615, HEMBA1003617, HEMBA1003646, HEMBA1003662, HEMBA1003679, HEMBA1003684, HEMBA1003690, HEMBA1003711, HEMBA1003729, HEMBA1003742, HEMBA1003783, HEMBA1003803, HEMBA1003805, HEMBA1003838, HEMBA1003864, HEMBA1003959, HEMBA1003978,

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00855, NT2RP4000878, NT2RP4000879, NT2RP4000907, NT2RP4000918, NT2RP4000928, NT2RP4000979, NT2RP4000984, NT2RP4000989, NT2RP4001006, NT2RP4001010, NT2RP4001041, NT2RP4001079, NT2RP4001095, NT2RP4001100, NT2RP4001117, NT2RP4001122, NT2RP4001126, NT2RP4001143, NT2RP4001148, NT2RP4001149, NT2RP4001159, NT2RP4001174, NT2RP4001206, NT2RP4001207, NT2RP4001210, NT2RP4001213, NT2RP4001219, NT2RP4001228, NT2RP4001235, NT2RP4001256, NT2RP4001260, NT2RP4001274, NT2RP4001276, NT2RP4001315, NT2RP4001336, NT2RP4001339, NT2RP4001343, NT2RP4001375, NT2RP4001389, NT2RP4001414, NT2RP4001442, NT2RP4001447, NT2RP4001474, NT2RP4001498, NT2RP4001502, NT2RP4001507, NT2RP4001524, NT2RP4001529, NT2RP4001547, NT2RP4001555, NT2RP4001567, NT2RP4001568, NT2RP4001571, NT2RP4001574, NT2RP4001575, NT2RP4001592, NT2RP4001610, NT2RP4001638, NT2RP4001644, NT2RP4001677, NT2RP4001679, NT2RP4001696, NT2RP4001730, NT2RP4001739, NT2RP4001753, NT2RP4001760, NT2RP4001803, NT2RP4001822, NT2RP4001823, NT2RP4001828, NT2RP4001838, NT2RP4001841, NT2RP4001849, NT2RP4001861, NT2RP4001893, NT2RP4001901, NT2RP4001927, NT2RP4001946, NT2RP4001950, NT2RP4001953, NT2RP4001975, NT2RP4002018, NT2RP4002071, NT2RP4002078, NT2RP4002083, NT2RP4002791, NT2RP4002888, NT2RP5003461, NT2RP5003477, NT2RP5003492, NT2RP5003522, NT2RP5003534, OVARC1000001, OVARC1000004, OVARC1000006, OVARC1000013, OVARC1000091, OVARC1000106, OVARC1000113, OVARC1000139, OVARC1000168, OVARC1000209, OVARC1000212, OVARC1000288, OVARC1000304, OVARC1000309, OVARC1000321, OVARC1000335, OVARC1000384, OVARC1000443, OVARC1000465, OVARC1000466, OVARC1000479, OVARC1000564, OVARC1000576, OVARC1000682, OVARC1000722, OVARC1000730, OVARC1000746, OVARC1000771, OVARC1000781, OVARC1000834, OVARC1000862, OVARC1000883, OVARC1000885, OVARC1000886, OVARC1000924, OVARC1000964, OVARC1000984, OVARC1001034, OVARC1001038, OVARC1001055, OVARC1001065, OVARC1001068, OVARC1001092, OVARC1001107, OVARC1001154, OVARC1001161, OVARC1001171, OVARC1001176, OVARC1001232, OVARC1001244, OVARC1001270, OVARC1001296, OVARC1001341, OVARC1001360, OVARC1001381, OVARC1001419, OVARC1001476, OVARC1001496, OVARC1001555, OVARC1001577, OVARC1001702, OVARC1001711, OVARC1001713, OVARC1001766, OVARC1001768, OVARC1001791, OVARC1001809, OVARC1001873, OVARC1001880, OVARC1001916, OVARC1001943, OVARC1001987, OVARC1002050, OVARC1002112, OVARC1002127, OVARC1002156, OVARC1002182, PLACE1000007, PLACE1000050, PLACE1000066, PLACE1000133, PLACE1000142, PLACE1000184, PLACE1000185, PLACE1000213, PLACE1000246, PLACE1000308, PLACE1000347, PLACE1000374, PLACE1000380, PLACE1000383, PLACE1000406, PLACE1000453, PLACE1000492, PLACE1000562, PLACE1000610, PLACE1000611, PLACE1000653, PLACE1000656, PLACE1000706, PLACE1000712, PLACE1000748, PLACE1000769, PLACE1000785, PLACE1000793, PLACE1000798, PLACE1000856, PLACE1000863, PLACE1000977, PLACE1000987, PLACE1001054, PLACE1001092, PLACE1001168, PLACE1001185, PLACE1001238, PLACE1001294, PLACE1001304, PLACE1001351, PLACE1001383, PLACE1001399, PLACE1001412, PLACE1001608, PLACE1001692, PLACE1001761, PLACE1001781, PLACE1001817, PLACE1001844, PLACE1001869, PLACE1001920, PLACE1002046, PLACE1002072, PLACE1002090, PLACE1002140, PLACE1002171, PLACE1002342, PLACE1002395, PLACE1002499, PLACE1002571, PLACE1002722, PLACE1002794, PLACE1002811, PLACE1002815, PLACE1002816, PLACE1002834, PLACE1002908, PLACE1002996, PLACE1003027, PLACE1003092, PLACE1003100, PLACE1003136, PLACE1003176, PLACE1003200, PLACE1003296, PLACE1003302, PLACE1003353, PLACE1003394, PLACE1003454, PLACE1003537, PLACE1003592, PLACE1003596, PLACE1003602, PLACE1003625, PLACE1003704, PLACE1003886, PLACE1003892, PLACE1003903, PLACE1003915, PLACE1003923, PLACE1003968,

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605, THYRO1000715, THYRO1000756, THYRO1000777, THYRO1000829, THYRO1000855, THYRO1000926, THYRO1000983, THYRO1000984, THYRO1001120, THYRO1001134, THYRO1001173, THYRO1001204, THYRO1001271, THYRO1001287, THYRO1001313, THYRO1001347, THYRO1001363, THYRO1001405, THYRO1001406, THYRO1001537, THYRO1001584, THYRO1001671, THYRO1001703, THYRO1001721, THYRO1001793,

VESEN1000122, Y79AA1000013, Y79AA1000181, Y79AA1000202, Y79AA1000214, Y79AA1000230, Y79AA1000231, Y79AA1000258, Y79AA1000313, Y79AA1000328, Y79AA1000342, Y79AA1000368, Y79AA1000420, Y79AA1000469, Y79AA1000480, Y79AA1000539, Y79AA1000540, Y79AA1000560, Y79AA1000574, Y79AA1000589, Y79AA1000705, Y79AA1000734, Y79AA1000748, Y79AA1000752, Y79AA1000774, Y79AA1000782, Y79AA1000784, Y79AA1000794, Y79AA1000800, Y79AA1000833, Y79AA1000966, Y79AA1000968, Y79AA1001023, Y79AA1001041, Y79AA1001048, Y79AA1001077, Y79AA1001078, Y79AA1001216, Y79AA1001228, Y79AA1001236, Y79AA1001312, Y79AA1001323, Y79AA1001394, Y79AA1001402, Y79AA1001493, Y79AA1001511, Y79AA1001548, Y79AA1001585, Y79AA1001603, Y79AA1001647, Y79AA1001665, Y79AA1001679, Y79AA1001696, Y79AA1001705, Y79AA1001711, Y79AA1001781, Y79AA1001805, Y79AA1001827, Y79AA1001963, Y79AA1002027, Y79AA1002089, Y79AA1002093, Y79AA1002125, Y79AA1002208, Y79AA1002209, Y79AA1002210, Y79AA1002234, Y79AA1002258, Y79AA1002307, Y79AA1002311, Y79AA1002351, Y79AA1002416, Y79AA1002487,

Group (4): 453 clones

Among the 1857 clones having the maximal ATGpr1 score not more than 0.3 (including the 9 clones whose 5'-end sequence does not contain the ATG codon), the following 453 clones were judged to be full-length since their ATGpr2 score was 0.3 or higher (Table 11). The clones were novel clones, in which at least either of the 5'-end or 3'-end sequence is not identical to any of human ESTs.

HEMBA1000180, HEMBA1000280, HEMBA1000282, HEMBA1000333, HEMBA1000351, HEMBA1000357, HEMBA1000376, HEMBA1000469, HEMBA1000504, HEMBA1000519, HEMBA1000545, HEMBA1000557, HEMBA1000575, HEMBA1000726, HEMBA1000822, HEMBA1000934, HEMBA1000943, HEMBA1000960, HEMBA1000972, HEMBA1001020, HEMBA1001051, HEMBA1001060, HEMBA1001071, HEMBA1001208, HEMBA1001319, HEMBA1001383, HEMBA1001411, HEMBA1001433, HEMBA1001435, HEMBA1001478, HEMBA1001522, HEMBA1001636, HEMBA1001651, HEMBA1001658, HEMBA1001709, HEMBA1001745, HEMBA1001791, HEMBA1001835, HEMBA1001844, HEMBA1001888, HEMBA1001940, HEMBA1001962, HEMBA1002022, HEMBA1002185, HEMBA1002348, HEMBA1002621, HEMBA1002645, HEMBA1002661, HEMBA1002728, HEMBA1002921, HEMBA1002924, HEMBA1002934, HEMBA1002968,

HEMBA1003037, HEMBA1003071, HEMBA1003166, HEMBA1003202, HEMBA1003204, HEMBA1003220, HEMBA1003229, HEMBA1003276, HEMBA1003296, HEMBA1003373, HEMBA1003531, HEMBA1003640, HEMBA1003856, HEMBA1003926, HEMBA1003942, HEMBA1003987, HEMBA1004024, HEMBA1004267, HEMBA1004323, HEMBA1004433, HEMBA1004577, HEMBA1004730, HEMBA1004778, HEMBA1004803, HEMBA1004807, HEMBA1004880, HEMBA1004900, HEMBA1004983, HEMBA1005123, HEMBA1005241, HEMBA1005311, HEMBA1005318, HEMBA1005353, HEMBA1005374, HEMBA1005447, HEMBA1005588, HEMBA1005593, HEMBA1005606, HEMBA1005679, HEMBA1005894, HEMBA1005911, HEMBA1006036, HEMBA1006124, HEMBA1006253, HEMBA1006259, HEMBA1006364, HEMBA1006380, HEMBA1006426, HEMBA1006562, HEMBA1006597, HEMBA1006639, HEMBA1006653, HEMBA1006696, HEMBA1006744, HEMBA1006824, HEMBA1006949, HEMBA1007078, HEMBA1007129, HEMBA1007147, HEMBA1007206, HEMBA1007279, HEMBA1007327,

HEMBB1000005, HEMBB1000055, HEMBB1000144, HEMBB1000258, HEMBB1000318, HEMBB1000335, HEMBB1000354, HEMBB1000374, HEMBB1000402, HEMBB1000404, HEMBB1000480, HEMBB100049

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3, HEMBB1000554, HEMBB1000573, HEMBB1000649, HEMBB1000652, HEMBB1000709, HEMBB10007
 49, HEMBB1000790, HEMBB1000827, HEMBB1000831, HEMBB1000893, HEMBB1001004, HEMBB1001
 008, HEMBB1001047, HEMBB1001315, HEMBB1001317, HEMBB1001326, HEMBB1001367, HEMBB100
 1424, HEMBB1001436, HEMBB1001458, HEMBB1001535, HEMBB1001565, HEMBB1001747, HEMBB10
 5 01749, HEMBB1001797, HEMBB1001836, HEMBB1001863, HEMBB1001875, HEMBB1001911, HEMBB1
 001922, HEMBB1001925, HEMBB1001944, HEMBB1001983, HEMBB1001996, HEMBB1001997, HEMBB
 1002092, HEMBB1002247, HEMBB1002266, HEMBB1002387, HEMBB1002425, HEMBB1002458, HEMBB
 B1002522, HEMBB1002534, HEMBB1002582, HEMBB1002596, HEMBB1002617, HEMBB1002702,
 10 MAMMA1000043, MAMMA1000092, MAMMA1000129, MAMMA1000198, MAMMA1000221, MAMMA1000307
 , MAMMA1000331, MAMMA1000360, MAMMA1000402, MAMMA1000414, MAMMA1000500, MAMMA100052
 2, MAMMA1000576, MAMMA1000594, MAMMA1000597, MAMMA1000720, MAMMA1000775, MAMMA10007
 78, MAMMA1000798, MAMMA1000862, MAMMA1000876, MAMMA1000931, MAMMA1000940, MAMMA1000
 941, MAMMA1000975, MAMMA1001038, MAMMA1001186, MAMMA1001220, MAMMA1001256, MAMMA100
 1274, MAMMA1001341, MAMMA1001397, MAMMA1001420, MAMMA1001547, MAMMA1001670, MAMMA10
 15 01679, MAMMA1001711, MAMMA1001745, MAMMA1001760, MAMMA1001769, MAMMA1001815, MAMMA1
 001907, MAMMA1002056, MAMMA1002078, MAMMA1002093, MAMMA1002125, MAMMA1002132, MAMMA
 1002145, MAMMA1002250, MAMMA1002311, MAMMA1002411, MAMMA1002498, MAMMA1002571, MAMM
 A1002701, MAMMA1002727, MAMMA1002728, MAMMA1002746, MAMMA1002764, MAMMA1002765, MAM
 MA1002820, MAMMA1002830, MAMMA1002909, MAMMA1002941, MAMMA1002973, MAMMA1003004, MA
 20 MMA1003007, MAMMA1003039, MAMMA1003089,
 NT2RM4000086, NT2RM4000265, NT2RM4000414, NT2RM4000779, NT2RM4000855, NT2RM4001160
 , NT2RM4001313, NT2RM4001437, NT2RM4001754, NT2RM4001953, NT2RM4001984, NT2RP200007
 7, NT2RP2000183, NT2RP2000420, NT2RP2000678, NT2RP2000715, NT2RP2000842, NT2RP20009
 70, NT2RP2001149, NT2RP2001226, NT2RP2001295, NT2RP2001347, NT2RP2001569, NT2RP2001
 25 663, NT2RP2001936, NT2RP2002041, NT2RP2002172, NT2RP2002219, NT2RP2002316, NT2RP200
 2546, NT2RP2002591, NT2RP2002643, NT2RP2002741, NT2RP2002750, NT2RP2002778, NT2RP20
 02857, NT2RP2003000, NT2RP2003073, NT2RP2003237, NT2RP2003394, NT2RP2003517, NT2RP2
 003668, NT2RP2003988, NT2RP2004232, NT2RP2004523, NT2RP2004736, NT2RP2004767, NT2RP
 2004775, NT2RP2004961, NT2RP2004962, NT2RP2004982, NT2RP2005407, NT2RP2005726, NT2R
 30 P2006258, NT2RP2006261, NT2RP2006454, NT2RP3000055, NT2RP3000233, NT2RP3000341, NT2
 RP3000418, NT2RP3000451, NT2RP3000561, NT2RP3000582, NT2RP3001281, NT2RP3001339, NT
 2RP3001340, NT2RP3001383, NT2RP3001432, NT2RP3001580, NT2RP3001589, NT2RP3002004, N
 T2RP3002173, NT2RP3003133, NT2RP3003346, NT2RP3003403, NT2RP3003576, NT2RP3003625,
 NT2RP3003665, NT2RP3003800, NT2RP3003828, NT2RP3004070, NT2RP3004470, NT2RP4000023
 35 , NT2RP4000035, NT2RP4000102, NT2RP4000167, NT2RP4000214, NT2RP4000218, NT2RP400042
 4, NT2RP4000915, NT2RP4002075,
 OVARC1000085, OVARC1000092, OVARC1000145, OVARC1000414, OVARC1000496, OVARC1000526
 , OVARC1000948, OVARC1001011, OVARC1001600, OVARC1001805, OVARC1001813, OVARC100184
 6,
 40 PLACE1000540, PLACE1000599, PLACE1001088, PLACE1001377, PLACE1001440, PLACE1001517
 , PLACE1001672, PLACE1001756, PLACE1002157, PLACE1002205, PLACE1002259, PLACE100239
 9, PLACE1002477, PLACE1002583, PLACE1002968, PLACE1003238, PLACE1003566, PLACE10035
 93, PLACE1003618, PLACE1004274, PLACE1004716, PLACE1004773, PLACE1004815, PLACE1004
 979, PLACE1005052, PLACE1005086, PLACE1005128, PLACE1005176, PLACE1005467, PLACE100
 45 5639, PLACE1005850, PLACE1006003, PLACE1006017, PLACE1006288, PLACE1006371, PLACE10
 06629, PLACE1007478, PLACE1008330, PLACE1008584, PLACE1008851, PLACE1008941, PLACE1

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009039, PLACE1009493, PLACE1009539, PLACE1009637, PLACE1009947, PLACE1010231, PLACE1010562, PLACE1010579, PLACE1010739, PLACE1010802, PLACE1010896, PLACE1011032, PLACE1011185, PLACE1011452, PLACE1011465, PLACE1011520, PLACE1011567, PLACE1011719, PLACE2000011, PLACE2000017, PLACE2000061, PLACE2000187, PLACE2000216, PLACE2000335, PLACE2000347, PLACE2000366, PLACE2000394, PLACE2000398, PLACE2000425, PLACE2000450, PLACE2000477, PLACE3000119, PLACE3000207, PLACE3000230, PLACE3000271, PLACE3000373, PLACE3000399, PLACE3000401, PLACE3000406, PLACE4000247, PLACE4000320, PLACE4000367, PLACE4000401, THYRO1000111, THYRO1000187, THYRO1000484, THYRO1000596, THYRO1000625, THYRO1000815, THYRO1000865, THYRO1001003, THYRO1001031, THYRO1001133, THYRO1001401, THYRO1001426, THYRO1001434, THYRO1001559, THYRO1001570, THYRO1001706, THYRO1001746, THYRO1001772, THYRO1001907, Y79AA1000033, Y79AA1000346, Y79AA1000805, Y79AA1001692, Y79AA100220,

Group (5): 24 clones

The following 24 clones having low score in the ATGpr1 were judged to be full-length since their ATGpr2 score was 0.3 or higher (Table 11). The clones were novel clones, in which the number of the identical human ESTs for both the 5'-end and 3'-end sequences is 1 or higher and not more than 5.

HEMBA1000622, HEMBA1000749, HEMBA1000876, HEMBA1001226, HEMBA1001391, HEMBA1002742, HEMBA1003908, HEMBA1004000, HEMBB1000336, MAMMA1000356, MAMMA1000883, MAMMA1001590, NT2RP2000289, NT2RP2001467, PLACE1002853, PLACE1003420, PLACE1004836, PLACE1004913, PLACE1006795, PLACE1008181, PLACE1008715, PLACE4000344, THYRO1000129, THYRO1001321,

Group (6): 65 clones

The following 65 clones having low scores in both the ATGpr1 and ATGpr2 (Table 11) were judged to be full-length, since both scores were still the maximum in a cluster compared with those of the other clones(at least 2 clones or more) in the same cluster. The clones were novel clones, in which at least either of the 5'-end or 3'-end sequence is not identical to any of human ESTs.

HEMBA1000604, HEMBA1000673, HEMBA1001024, HEMBA1001026, HEMBA1001734, HEMBA1001784, HEMBA1001808, HEMBA1003902, HEMBA1004164, HEMBA1004909, HEMBA1005232, HEMBA1005577, HEMBA1006461, HEMBA1006695, HEMBB1001119, HEMBB1001337, HEMBB1001536, HEMBB1001868, HEMBB1002045, HEMBB1002579, MAMMA1000444, MAMMA1000761, MAMMA1000943, MAMMA1001820, MAMMA1002360, NT2RM4000366, NT2RM4001856, NT2RM4002390, NT2RP2000108, NT2RP2000257, NT2RP2001506, NT2RP2002047, NT2RP2002066, NT2RP2002475, NT2RP2004400, NT2RP2004587, NT2RP2005289, NT2RP2005694, NT2RP3001898, NT2RP3003264, NT2RP3003433, NT2RP3003842, OVARC1001240, PLACE1001323, PLACE1002227, PLACE1002500, PLACE1002604, PLACE1002772, PLACE1003478, PLACE1004681, PLACE1005108, PLACE1005932, PLACE1006318, PLACE1006368, PLACE1006506, PLACE1006904, PLACE1007557, PLACE1007877, PLACE1009048, PLACE1011109, PLACE1011643, PLACE4000548, THYRO1000279, Y79AA1000410, Y79AA1002103,

Group (7): 32 clones

The following 32 clones having low scores in both the ATGpr1 and ATGpr2 (Table 11) were judged to be full-length, since both scores were still the maximum in a cluster compared with those of the other clones(at least 2 clones or more) in the same cluster. The clones were novel

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clones, in which the number of the identical human ESTs for both the 5'-end and 3'-end sequences is 1 or higher and not more than 5.

HEMBA1000251, HEMBA1001803, HEMBA1001918, HEMBA1002257, HEMBA1003064, HEMBA1003714, HEMBA1004405, HEMBA1005508, HEMBB1000054, HEMBB1001142, MAMMA1000175, MAMMA1001162, MAMMA1002972, NT2RM4000425, NT2RP2004512, NT2RP2005531, NT2RP2005942, NT2RP200654, NT2RP3001007, NT2RP3001318, OVARC1000017, OVARC1000068, OVARC1000486, PLACE1001705, PLACE1002319, PLACE1007743, PLACE1007829, PLACE1008630, PLACE1009925, PLACE1011492, PLACE1011749, THYRO1000793,

The following 117 clones, selected by assembling the sequence of the other clones in the same cluster and human ESTs, have high fullness ratio. The clones were classified into the following group (8) and (9).

HEMBA1001323, HEMBA1001330, HEMBA1001712, HEMBA1001820, HEMBA1002204, HEMBA1002349, HEMBA1002538, HEMBA1003309, HEMBA1003939, HEMBA1004015, HEMBA1004295, HEMBA1004672, HEMBA1004865, HEMBA1005251, HEMBA1006158, HEMBA1006676, HEMBA1006779, HEMBA1007288, HEMBB1000218, HEMBB1000272, HEMBB1000399, HEMBB1000491, HEMBB1000996, HEMBB1001114, HEMBB1001850, HEMBB1002015, MAMMA1000287, MAMMA1001683, MAMMA1001686, MAMMA1002612,

NT2RM2000609, NT2RM4002438, NT2RM4002567, NT2RP2000270, NT2RP2000758, NT2RP2001290, NT2RP2001526, NT2RP2002124, NT2RP2002736, NT2RP2002753, NT2RP2003456, NT2RP2003727, NT2RP2003871, NT2RP2003968, NT2RP2004321, NT2RP2004412, NT2RP2004580, NT2RP2005293, NT2RP2005476, NT2RP2005753, NT2RP2005815, NT2RP2005841, NT2RP2005857, NT2RP2006393, NT2RP2006467, NT2RP3000109, NT2RP3000449, NT2RP3001245, NT2RP3001634, NT2RP3002056, NT2RP3002810, NT2RP3002955, NT2RP3003032, NT2RP3003138, NT2RP3003500, NT2RP3003819, NT2RP4000078, NT2RP4000515, NT2RP4000517, NT2RP4001407, NT2RP4001889, NT2RP4002905,

OVARC1000071, OVARC1001883, PLACE1000292, PLACE1001007, PLACE1001395, PLACE1001691, PLACE1001746, PLACE1001748, PLACE1001845, PLACE1002066, PLACE1003373, PLACE1003900, PLACE1004118, PLACE1004256, PLACE1004284, PLACE1004336, PLACE1004506, PLACE1004934, PLACE1005077, PLACE1005111, PLACE1005409, PLACE1005730, PLACE1006076, PLACE1006360, PLACE1006470, PLACE1006760, PLACE1006867, PLACE1007045, PLACE1007111, PLACE1007807, PLACE1008080, PLACE1008244, PLACE1008369, PLACE1008405, PLACE1008426, PLACE1008621, PLACE1009020, PLACE1009621, PLACE1010089, PLACE1010270, PLACE3000276, THYRO1000805, THYRO1001365, THYRO1001673, Y79AA1001848,

Group (8): 36 clones

Among the 117 clones described above, the following 36 clones were novel clones, in which at least either of the 5'-end or 3'-end sequence, or both of them were not identical to any of human ESTs.

HEMBA1001330, HEMBA1001712, HEMBA1001820, HEMBA1002204, HEMBA1002349, HEMBA1003939, HEMBA1004295, HEMBA1004865, HEMBA1006779, HEMBB1000218, HEMBB1000491, HEMBB1000996, HEMBB1001114, MAMMA1000287, MAMMA1001686, MAMMA1002612, NT2RP2002736, NT2RP2003727, NT2RP2004580, NT2RP2005841, NT2RP2006393, PLACE1002066, PLACE1003373, PLACE1003900, PLACE1004118, PLACE1004336, PLACE1004506, PLACE1004934, PLACE1005409, PLACE1005730, PLACE1006470, PLACE1008080, PLACE3000276, THYRO1000805, THYRO1001365, THYRO1001673,

Group (9): 81 clones

Among the 117 clones described above, the following 81 clones were the clones in which the number of the identical human ESTs for the 5'-end sequence is not more than 20 (except clones in which at least either of the 5'-end or 3'-end sequence, or both of them are not identical to any of human ESTs, and clones in which the number of the identical human ESTs for both the 5'-end and 3'-end sequences is 1 or higher and not more than 5).

5 HEMBA1001323, HEMBA1002538, HEMBA1003309, HEMBA1004015, HEMBA1004672, HEMBA1005251
 , HEMBA1006158, HEMBA1006676, HEMBA1007288, HEMBB1000272, HEMBB1000399, HEMBB100185
 0, HEMBB1002015, MAMMA1001683, NT2RM2000609, NT2RM4002438, NT2RM4002567, NT2RP20002
 10 70, NT2RP2000758, NT2RP2001290, NT2RP2001526, NT2RP2002124, NT2RP2002753, NT2RP2003
 456, NT2RP2003871, NT2RP2003968, NT2RP2004321, NT2RP2004412, NT2RP2005293, NT2RP200
 5476, NT2RP2005753, NT2RP2005815, NT2RP2005857, NT2RP2006467, NT2RP3000109, NT2RP30
 00449, NT2RP3001245, NT2RP3001634, NT2RP3002056, NT2RP3002810, NT2RP3002955, NT2RP3
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 4000517, NT2RP4001407, NT2RP4001889, NT2RP4002905,
 15 OVARC1000071, OVARC1001883, PLACE1000292, PLACE1001007, PLACE1001395, PLACE1001691
 , PLACE1001746, PLACE1001748, PLACE1001845, PLACE1004256, PLACE1004284, PLACE100507
 7, PLACE1005111, PLACE1006076, PLACE1006360, PLACE1006760, PLACE1006867, PLACE10070
 45, PLACE1007111, PLACE1007807, PLACE1008244, PLACE1008369, PLACE1008405, PLACE1008
 426, PLACE1008621, PLACE1009020, PLACE1009621, PLACE1010089, PLACE1010270, Y79AA100
 20 1848,

Group (10): 938 clones

The following 938 clones having low scores in both the ATGpr1 and ATGpr2 were judged to be full-length according to the fullness ratio shown in Table 4. The clones were novel clones, in which at least the 5'-end sequence was not identical to any of human ESTs.

25 HEMBA1000042, HEMBA1000213, HEMBA1000264, HEMBA1000355, HEMBA1000366, HEMBA1000411
 , HEMBA1000422, HEMBA1000428, HEMBA1000434, HEMBA1000442, HEMBA1000464, HEMBA100054
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 05, HEMBA1000722, HEMBA1000747, HEMBA1000769, HEMBA1000773, HEMBA1000774, HEMBA1000
 30 827, HEMBA1000843, HEMBA1000852, HEMBA1000870, HEMBA1000908, HEMBA1000985, HEMBA100
 0991, HEMBA1001017, HEMBA1001019, HEMBA1001094, HEMBA1001121, HEMBA1001172, HEMBA10
 01265, HEMBA1001327, HEMBA1001375, HEMBA1001432, HEMBA1001454, HEMBA1001463, HEMBA1
 001515, HEMBA1001517, HEMBA1001557, HEMBA1001566, HEMBA1001585, HEMBA1001589, HEMBA
 1001608, HEMBA1001675, HEMBA1001678, HEMBA1001681, HEMBA1001718, HEMBA1001761, HEMB
 35 A1001945, HEMBA1001960, HEMBA1001964, HEMBA1001991,
 HEMBA1002003, HEMBA1002008, HEMBA1002039, HEMBA1002100, HEMBA1002113, HEMBA1002139
 , HEMBA1002144, HEMBA1002153, HEMBA1002226, HEMBA1002253, HEMBA1002270, HEMBA100232
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 55, HEMBA1002558, HEMBA1002561, HEMBA1002590, HEMBA1002628, HEMBA1002629, HEMBA1002
 40 651, HEMBA1002659, HEMBA1002666, HEMBA1002678, HEMBA1002712, HEMBA1002716, HEMBA100
 2730, HEMBA1002748, HEMBA1002780, HEMBA1002801, HEMBA1002826, HEMBA1002833, HEMBA10
 02886, HEMBA1002896, HEMBA1003083, HEMBA1003086, HEMBA1003098, HEMBA1003133, HEMBA1
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 45 A1003597, HEMBA1003622, HEMBA1003637, HEMBA1003656, HEMBA1003715, HEMBA1003725, HEM
 BA1003733, HEMBA1003758, HEMBA1003773, HEMBA1003784, HEMBA1003885, HEMBA1003937, HE
 MBA1003950, HEMBA1003976,

HEMBA1004012, HEMBA1004045, HEMBA1004138, HEMBA1004241, HEMBA1004272, HEMBA1004306
, HEMBA1004312, HEMBA1004334, HEMBA1004354, HEMBA1004356, HEMBA1004366, HEMBA100439
4, HEMBA1004396, HEMBA1004429, HEMBA1004460, HEMBA1004461, HEMBA1004482, HEMBA10045
06, HEMBA1004538, HEMBA1004586, HEMBA1004617, HEMBA1004629, HEMBA1004631, HEMBA1004
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5 MAMMA1001501, MAMMA1001575, MAMMA1001606, MAMMA1001671, MAMMA1001715, MAMMA1001740, MAMMA1001788, MAMMA1001818, MAMMA1001854, MAMMA1001878, MAMMA1001931, MAMMA1001992, MAMMA1002032, MAMMA1002082, MAMMA1002084, MAMMA1002108, MAMMA1002118, MAMMA1002140, MAMMA1002215, MAMMA1002267, MAMMA1002298, MAMMA1002299, MAMMA1002310, MAMMA1002322, MAMMA1002339, MAMMA1002347, MAMMA1002352, MAMMA1002361, MAMMA1002392, MAMMA1002417, MAMMA1002428, MAMMA1002446, MAMMA1002475, MAMMA1002480, MAMMA1002545, MAMMA1002556, MAMMA1002566, MAMMA1002597, MAMMA1002603, MAMMA1002623, MAMMA1002625, MAMMA1002629, MAMMA1002636, MAMMA1002662, MAMMA1002698, MAMMA1002708, MAMMA1002721, MAMMA1002744, MAMMA1002754, MAMMA1002758, MAMMA1002780, MAMMA1002833, MAMMA1002835, MAMMA1002838, MAMMA1002844, MAMMA1002858, MAMMA1002880, MAMMA1002887, MAMMA1002908, MAMMA1002930, MAMMA1002970, MAMMA1002982, MAMMA1003003, MAMMA1003019, MAMMA1003026, MAMMA1003031, MAMMA1003040, MAMMA1003055,

10 NT2RM4000046, NT2RM4000085, NT2RM4000200, NT2RM4000244, NT2RM4000368, NT2RM4000979, NT2RM4001016, NT2RM4001519, NT2RM4001557, NT2RM4001605, NT2RM4001810, NT2RM4001858, NT2RM4001930, NT2RM4002067, NT2RM4002278, NT2RM4002281, NT2RM4002287, NT2RM4002383, NT2RM4002479, NT2RM4002504, NT2RM4002532, NT2RP2000027, NT2RP2000098, NT2RP2000258, NT2RP2000327, NT2RP2000337, NT2RP2000459, NT2RP2000498, NT2RP2000987, NT2RP2001277, NT2RP2001312, NT2RP2001423, NT2RP2001445, NT2RP2001449, NT2RP2001677, NT2RP2001699, NT2RP2001720, NT2RP2001740, NT2RP2001762, NT2RP2001813, NT2RP2001869, NT2RP2001943, NT2RP2002032, NT2RP2002070, NT2RP2002105, NT2RP2002137, NT2RP2002192, NT2RP2002256, NT2RP2002259, NT2RP2002394, NT2RP2002439, NT2RP2002457, NT2RP2002504, NT2RP2002606, NT2RP2002727, NT2RP2002740, NT2RP2002752, NT2RP2002839, NT2RP2002987, NT2RP2003129, NT2RP2003161, NT2RP2003164, NT2RP2003230, NT2RP2003339, NT2RP2003499, NT2RP2003522, NT2RP2003559, NT2RP2003706, NT2RP2003770, NT2RP2003859, NT2RP2003885, NT2RP2004014, NT2RP2004142, NT2RP2004170, NT2RP2004172, NT2RP2004207, NT2RP2004270, NT2RP2004300, NT2RP2004339, NT2RP2004347, NT2RP2004425, NT2RP2004490, NT2RP2004675, NT2RP2004709, NT2RP2004967, NT2RP2005020, NT2RP2005031, NT2RP2005108, NT2RP2005254, NT2RP2005325, NT2RP2005336, NT2RP2005344, NT2RP2005354, NT2RP2005360, NT2RP2005491, NT2RP2005501, NT2RP2005581, NT2RP2005645, NT2RP2005651, NT2RP2005701, NT2RP2005719, NT2RP2005741, NT2RP2005908, NT2RP2005980, NT2RP2006098, NT2RP2006103, NT2RP2006166, NT2RP2006184, NT2RP2006320, NT2RP2006321, NT2RP2006323, NT2RP2006534, NT2RP2006598,

30 NT2RP3000186, NT2RP3000235, NT2RP3000247, NT2RP3000433, NT2RP3000441, NT2RP3000578, NT2RP3000584, NT2RP3000622, NT2RP3000628, NT2RP3000685, NT2RP3000742, NT2RP3000815, NT2RP3000875, NT2RP3000904, NT2RP3001115, NT2RP3001232, NT2RP3001374, NT2RP3001459, NT2RP3001527, NT2RP3001607, NT2RP3001752, NT2RP3001782, NT2RP3001926, NT2RP3001989, NT2RP3002002, NT2RP3002166, NT2RP3002352, NT2RP3002687, NT2RP3002713, NT2RP3002770, NT2RP3002799, NT2RP3002978, NT2RP3003059, NT2RP3003121, NT2RP3003464, NT2RP3003572, NT2RP3003746, NT2RP3003799, NT2RP3003989, NT2RP3004016, NT2RP3004095, NT2RP3004110, NT2RP3004145, NT2RP3004148, NT2RP3004215, NT2RP3004399, NT2RP3004475, NT2RP3004503, NT2RP4000321, NT2RP4000519, NT2RP4000996,

45 OVARC1000133, OVARC1000198, OVARC1000240, OVARC1000427, OVARC1000431, OVARC1000533

000220" 69162960

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THYRO1000026, THYRO1000035, THYRO1000085, THYRO1000132, THYRO1000156, THYRO1000186, THYRO1000190, THYRO1000221, THYRO1000241, THYRO1000438, THYRO1000452, THYRO100055

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The following 228 clones having low scores in both the ATGpr1 and ATGpr2 were judged to be full-length according to the fullness ratio shown in Table 7. The clones were a novel clone, in which at least the 3'-end sequence was not identical to any of human ESTs.

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54, PLACE1007852, PLACE1008331, PLACE1008643, PLACE1009050, PLACE1009155, PLACE1009172, PLACE1009183, PLACE1009200, PLACE1009398, PLACE1009595, PLACE1010702, PLACE1010891, PLACE1011165, PLACE1011203, PLACE1011375, PLACE1011576, PLACE1011762, PLACE1011964, PLACE2000136, PLACE2000264, PLACE2000305, PLACE2000379, PLACE3000220, PLACE4000250, THYRO1000092, THYRO1000471, THYRO1000852, THYRO1001534, THYRO1001595, THYRO1001745.

EXAMPLE 12

Homology search using the 5'-end and 3'-end sequences of the selected clones.

The 5' -end sequences of the selected 5547 clones were used for the homology search of the SwissProt, and both the 5' -end 3' -end sequences were used for the search of the GenBank and UniGene (ref. the result of the search of the SwissProt, GenBank (except ESTs and STSs), and UniGene (Human) was attached).

Each search result is shown in the last part of this SPECIFICATION by arranging each item in the following format.

	5' -end sequence	3' -end sequence
Swiss-Prot	Homology search result 1	-----
GenBank	Homology search result 2	Homology search result 3
UniGene	Homology search result 4	Homology search result 5

According to the top hit data, at least 1430 clones were predicted to encode a protein belonging to any of the categories, secretory or membrane protein, glycoprotein, protein associated with signal transduction, protein associated with transcription, protein associated with diseases, enzyme or protein associated with metabolism, protein associated with cell division or cell proliferation, protein associated with cytoskeleton, protein associated with RNA synthesis, nuclear protein, protein associated with protein synthesis or transport, protein associated with cellular defense, or protein associated with development or growth. Among the clones predicted belonging to any of the categories, 1001 clones were estimated to have a relatively high homology with the known proteins or genes in the same category. In addition, 429 clones were estimated to have a relatively low homology with the known proteins in the same category.

Herein, the term "relatively high homology" is defined as having 60% or more identity and the P-value 10^{-10} or less in comparison with known sequences in the SwissProt database, or 64% or more identity and the P-value 10^{-15} or less in comparison with those in the GenBank and UniGene databases (see the attached list). Also, the term "relatively low homology" is defined as not fulfilling the requirements to be "relatively high homology", but still having the scores, 25% or more identity and the P-value 10^{-6} or less, using the sequence having 55 nucleotides or more, in comparison with known sequences in the SwissProt database (see the attached list). The P-value is a score obtained statistically by taking into account the probability of occurrence of the similarity between two sequences. In general, the smaller P-value reflects the higher similarity (Altschul S.F., Gish W., Miller W., Myers E.W., and Lipman D.J. (1990) "Basic local alignment search tool" J.Mol. Biol., 215: 403-410; Gish W., and States D.J. (1993) "Identification of protein coding regions by database similarity search" Nature Genet. 3: 266-272).

The clones predicted to encode a protein in the category of secretory protein or membrane protein have the keywords, "signal", "transmembrane", "membrane", "extracellular matrix", "receptor", "G-protein coupled receptor", "ionic channel", "voltage-gated channel", "calcium channel", "cell adhesion", "collagen", or "connective tissue", or descriptions from which the clone can be predicted to be a secretory or membrane protein, in the top hit data of the SwissProt using the 5'-end sequence, or in the top hit data of the GenBank or UniGene using the 5'-end sequence and 3'-end sequence.

The clones predicted to encode a protein in the category of glycoprotein have the keywords, "glycoprotein", or descriptions from which the clone can be predicted to be a glycoprotein, in the top hit data of the SwissProt using the 5'-end sequence, or in the top hit data of the GenBank or UniGene using the 5'-end sequence and 3'-end sequence.

The clones predicted to encode a protein in the category of proteins associated with signal transduction have the keywords, "serine/threonine-protein kinase", "tyrosine-protein kinase", "SH3 domain", or "WD repeat", or descriptions from which the clone can be predicted to be a protein associated with signal transduction (such as "ADP-ribosylation factor"), in the top hit data of the SwissProt using the 5'-end sequence, or in the top hit data of the GenBank or UniGene using the 5'-end sequence and 3'-end sequence.

The clones predicted to encode a protein in the category of proteins associated with transcription have the keywords, "transcription regulation", "zinc finger", or "homeobox", or descriptions from which the clone can be predicted to be a protein associated with transcription, in the top hit data of the SwissProt using the 5'-end sequence, or in the top hit data of the GenBank or UniGene using the 5'-end sequence and 3'-end sequence.

The clones predicted to encode a protein in the category of proteins associated with diseases are the clones in which the top hit data of the SwissProt using the 5'-end sequence, or the top hit data of the GenBank or UniGene using the 5'-end sequence and 3'-end sequence is a gene or protein that is deposited in the Online Mendelian Inheritance in Man (OMIM) database, which is a database of human genes and diseases, or the top hit data has descriptions from which the clone can be predicted to be a protein associated with diseases.

The clones predicted to encode a protein in the category of enzyme or proteins associated with metabolism are the clones in which the top hit data of the SwissProt using the 5'-end sequence, or the top hit data of the GenBank or UniGene using the 5'-end sequence and 3'-end sequence is a gene or protein with E.C.No. (Enzyme commission number), or the top hit data has descriptions from which the clone can be predicted to be an enzyme or protein associated with metabolism (such as "metabolism", "oxidoreductase", or "lipid").

The clones predicted to encode a protein in the category of proteins associated with cell division or cell proliferation have the keywords, "cell division", "cell cycle", "mitosis", or "chromosomal protein", or descriptions from which the clone can be predicted to be a protein associated with cell division or cell proliferation (such as "histone", "cell growth", or "apoptosis"), in the top hit data of the SwissProt using the 5'-end sequence, or in the top hit data of the GenBank or UniGene using the 5'-end sequence and 3'-end sequence.

The clones predicted to encode a protein in the category of proteins associated with cytoskeleton have the keywords, "structural protein", "cytoskeleton", "actin-binding", or "microtubules", or descriptions from which the clone can be predicted to be a protein associated with cytoskeleton, in the top hit data of the SwissProt using the 5'-end sequence, or in the top hit data of the GenBank or UniGene using the 5'-end sequence and 3'-end sequence.

The clones predicted to encode a protein in the category of proteins associated with RNA synthesis include the above clones predicted to be a protein associated with transcription, and also the clones which have the keywords, "RNA splicing", or "RNA processing", or descriptions from which the clone can be predicted to be a protein associated with RNA synthesis (such as "RNA helicase", "polyadenylation", or "RNA transport"), in the top hit data of the SwissProt using the 5'-end sequence, or in the top hit data of the GenBank or UniGene using the 5'-end

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sequence and 3'-end sequence.

The clones predicted to encode a protein in the category of nuclear protein include the above clones predicted to be a protein associated with transcription, and also the clones which have the keyword, "nuclear protein", or descriptions from which the clone can be predicted to be a nuclear protein, in the top hit data of the SwissProt using the 5'-end sequence, or in the top hit data of the GenBank or UniGene using the 5'-end sequence and 3'-end sequence.

The clones predicted to encode a protein in the category of proteins associated with protein synthesis or transport have the keywords, "translation regulation", "protein biosynthesis", "amino-acid biosynthesis", "ribosomal protein", or "protein transport", or descriptions from which the clone can be predicted to be a protein associated with protein synthesis or transport (such as "signal recognition particle", "ubiquitin", "proteosome", or "protease"), in the top hit data of the SwissProt using the 5'-end sequence, or in the top hit data of the GenBank or UniGene using the 5'-end sequence and 3'-end sequence.

The clones predicted to encode a protein in the category of proteins associated with cellular defense have the keywords, "heat shock", "chaperone", "DNA repair", or "DNA damage", or descriptions from which the clone can be predicted to be a protein associated with cellular defense, in the top hit data of the SwissProt using the 5'-end sequence, or in the top hit data of the GenBank or UniGene using the 5'-end sequence and 3'-end sequence.

The clones predicted to encode a protein in the category of proteins associated with development or growth have the keyword, "developmental protein", or descriptions from which the clone can be predicted to be a protein associated with development or growth, in the top hit data of the SwissProt using the 5'-end sequence, or in the top hit data of the GenBank or UniGene using the 5'-end sequence and 3'-end sequence.

The following 1430 clones were predicted to encode a protein belonging to any of the categories, secretory or membrane protein, glycoprotein, protein associated with signal transduction, protein associated with transcription, protein associated with diseases, enzyme or protein associated with metabolism, protein associated with cell division or cell proliferation, protein associated with cytoskeleton, protein associated with RNA synthesis, nuclear protein, protein associated with protein synthesis or transport, protein associated with cellular defense, or protein associated with development or growth.

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Among the clones, 1001 clones were estimated to have a relatively high homology with the known proteins or genes in the same category.

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35 The following 429 clones were estimated to have a relatively low homology with the known
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PLACE1003190, PLACE1003258, PLACE1003420, PLACE1003493, PLACE1003605,
 PLACE1003669, PLACE1003704, PLACE1003915,

40 PLACE1004197, PLACE1004428, PLACE1004471, PLACE1004629, PLACE1004751,
 PLACE1004902,

PLACE1005287, PLACE1005557, PLACE1005611, PLACE1005763, PLACE1005890,

45 PLACE1006157, PLACE1006469, PLACE1006731,

PLACE1007238, PLACE1007375, PLACE1007488, PLACE1007544, PLACE1007598,
 PLACE1007729, PLACE1008244, PLACE1008275, PLACE1008947,

PLACE1009094, PLACE1009319, PLACE1009622, PLACE1009721, PLACE1009846,

PLACE1009861,

PLACE1010083, PLACE1010089, PLACE1010106, PLACE1010162, PLACE1010194,
 PLACE1010310, PLACE1010833, PLACE1010960, PLACE1011056, PLACE1011219,
 5 PLACE1011263, PLACE1011371, PLACE1011492,

PLACE2000034, PLACE2000164, PLACE2000274, PLACE2000399, PLACE2000411,
 PLACE2000458,

10 PLACE3000148, PLACE3000156, PLACE3000242, PLACE3000322, PLACE3000353,
 PLACE3000373,

PLACE4000009, PLACE4000014, PLACE4000259, PLACE4000431, PLACE4000522,
 PLACE4000558, PLACE4000581, PLACE4000590, PLACE4000612,

15 SKNMC1000011,

THYRO1000072, THYRO1000852, THYRO1000934, THYRO1000951,

20 Y79AA1000258, Y79AA1000368, Y79AA1000539, Y79AA1000589, Y79AA1000962,
 Y79AA1001048, Y79AA1001233, Y79AA1001394, Y79AA1001581, Y79AA1001613,
 Y79AA1001692, Y79AA1001848, Y79AA1001874, Y79AA1001963,

25 Y79AA1002027, Y79AA1002139, Y79AA1002208, Y79AA1002209, Y79AA1002472,
 Y79AA1002482,

(1) Among the 1430 clones, the following 259 clones were predicted to encode a protein in the category of secretory protein or membrane protein (including the clones belonging to plural categories).

30 HEMBA1000005, HEMBA1001017, HEMBA1001059, HEMBA1001071, HEMBA1001351, HEMBA1001407,
 HEMBA1001476, HEMBA1001569, HEMBA1001678, HEMBA1001804, HEMBA1002150, HEMBA100254
 7, HEMBA1002555, HEMBA1002688, HEMBA1002716, HEMBA1002999, HEMBA1003071, HEMBA10030
 77, HEMBA1003538, HEMBA1003598, HEMBA1003690, HEMBA1004207, HEMBA1004356, HEMBA1004
 389, HEMBA1004756, HEMBA1005338, HEMBA1005367, HEMBA1005576, HEMBA1005699, HEMBA100
 5963, HEMBA1005990, HEMBA1006310, HEMBA1006344, HEMBA1006662, HEMBA1006976, HEMBA10
 35 07045, HEMBA1007301, HEMBB1000037, HEMBB1000119, HEMBB1000317, HEMBB1000530, HEMBB1
 000915, HEMBB1001112, HEMBB1001119, HEMBB1001151, HEMBB1001282, HEMBB1001331, HEMBB
 1002042, HEMBB1002092, HEMBB1002193, HEMBB1002600, MAMMA1000103, MAMMA1000424, MAMM
 40 A1000672, MAMMA1000734, MAMMA1000897, MAMMA1001008, MAMMA1001030, MAMMA1001041, MAM
 MA1001075, MAMMA1001080, MAMMA1001751, MAMMA1001754, MAMMA1002143, MAMMA1002219, MA
 MMA1002485, MAMMA1002636, MAMMA1002938, MAMMA1003104, NT2RM1000199, NT2RM1000355, N
 T2RM1000430, NT2RM1000648, NT2RM1000742, NT2RM1000770, NT2RM1000811, NT2RM1000833,
 NT2RM1000867, NT2RM1000882, NT2RM1000883, NT2RM1001139, NT2RM2000374, NT2RM2000402
 , NT2RM2000422, NT2RM2000566, NT2RM2000623, NT2RM2001324, NT2RM2001499, NT2RM200158
 45 8, NT2RM2001592, NT2RM2001613, NT2RM2001635, NT2RM2001648, NT2RM2001760, NT2RM20021
 09, NT2RM2002145, NT2RM4000156, NT2RM4000169, NT2RM4000386, NT2RM4000433,

NT2RM4000795, NT2RM4001032, NT2RM4001054, NT2RM4001410, NT2RM4001605, NT2RM4001930
 , NT2RM4001987, NT2RM4002073, NT2RM4002145, NT2RM4002189, NT2RM4002558, NT2RM400256
 5, NT2RM4002571, NT2RM4002594, NT2RP1000130, NT2RP1000326, NT2RP1000363, NT2RP10004
 13, NT2RP1000547, NT2RP1000782, NT2RP1000856, NT2RP1001247, NT2RP1001313, NT2RP1001
 546, NT2RP1001569, NT2RP2000056, NT2RP2000257, NT2RP2000842, NT2RP2001081, NT2RP200
 1991, NT2RP2002026, NT2RP2002193, NT2RP2002256, NT2RP2002312, NT2RP2002479, NT2RP20
 02504, NT2RP2003433, NT2RP2003706, NT2RP2003760, NT2RP2004194, NT2RP2004655, NT2RP2
 005020, NT2RP2005344, NT2RP2005465, NT2RP2005752, NT2RP2005753, NT2RP2005835, NT2RP
 2005933, NT2RP2006275, NT2RP2006565, NT2RP2006571, NT2RP3000324, NT2RP3000739, NT2R
 10 P3000919, NT2RP3001140, NT2RP3001355, NT2RP3001676, NT2RP3001708, NT2RP3001727, NT2
 RP3002659, NT2RP3003059, NT2RP3003101, NT2RP3003203, NT2RP3003212, NT2RP3003242, NT
 2RP3003672, NT2RP3003701, NT2RP3003716, NT2RP3003918, NT2RP3004207, NT2RP3004253, N
 T2RP4000008, NT2RP4000212, NT2RP4000243, NT2RP4000417, NT2RP4000878, NT2RP4000907,
 NT2RP4000925, NT2RP4000928, NT2RP4001079, NT2RP4001117, NT2RP4001150, NT2RP4001174
 15 , NT2RP4001313, NT2RP4001315, NT2RP4001345, NT2RP4001372, NT2RP4001574, NT2RP400182
 3, NT2RP4001966, NT2RP5003524, OVARC1000060, OVARC1000326, OVARC1000543, OVARC10006
 82, OVARC1000722, OVARC1000912, OVARC1001055, OVARC1001154, OVARC1001261,
 OVARC1001329, OVARC1001419, OVARC1001506, OVARC1001542, OVARC1001610, OVARC1001713
 , OVARC1001802, OVARC1001943, PLACE1000611, PLACE1001092, PLACE1001136, PLACE100129
 20 4, PLACE1002437, PLACE1002500, PLACE1002722, PLACE1002782, PLACE1002816, PLACE10034
 20, PLACE1003493, PLACE1003596, PLACE1004104, PLACE1004197, PLACE1004203, PLACE1004
 277, PLACE1004629, PLACE1004751, PLACE1005494, PLACE1005804, PLACE1005890, PLACE100
 6157, PLACE1007409, PLACE1007852, PLACE1008044, PLACE1008273, PLACE1008309, PLACE10
 08603, PLACE1008643, PLACE1009659, PLACE1009670, PLACE1009845, PLACE1009861, PLACE1
 25 011371, PLACE1011492, PLACE1011896, PLACE2000034, PLACE2000341, PLACE2000399, PLACE
 2000458, PLACE3000020, PLACE3000322, PLACE3000353, PLACE4000052, PLACE4000269, PLAC
 E4000522, PLACE4000581, THYR01000783, Y79AA1000258, Y79AA1000346, Y79AA1001874,

(2) The following 111 clones were predicted to encode a protein in the category of glycoprotein
 (including the clones belonging to plural categories).
 30 HEMBA1000752, HEMBA1001017, HEMBA1001059, HEMBA1001071, HEMBA1001302, HEMBA1002150
 . HEMBA1002547, HEMBA1002555, HEMBA1003077, HEMBA1003538, HEMBA1003598, HEMBA100386
 6, HEMBA1004356, HEMBA1005338, HEMBA1005576, HEMBA1005699, HEMBA1006562, HEMBA10069
 76, HEMBA1007301, HEMBB1000317, HEMBB1000530, HEMBB1001119, HEMBB1002092, HEMBB1002
 35 193, MAMMA1000672, MAMMA1000897, MAMMA1001030, MAMMA1001388, MAMMA1001771, MAMMA100
 2485, MAMMA1002636, MAMMA1002938, NT2RM1000648, NT2RM2000374, NT2RM2000407, NT2RM20
 00422, NT2RM2000623, NT2RM2001499, NT2RM2001588, NT2RM2001839, NT2RM2001930, NT2RM4
 000156, NT2RM4000233, NT2RM4001410, NT2RM4001987, NT2RM4002145, NT2RM4002189, NT2RM
 4002194, NT2RM4002558, NT2RM4002571, NT2RP1000856, NT2RP1001247, NT2RP2000056, NT2R
 40 P2001991, NT2RP2002025, NT2RP2002325, NT2RP2002385, NT2RP2003706, NT2RP2005933, NT2
 RP3001140, NT2RP3003242, NT2RP3003672, NT2RP3003701, NT2RP3003716, NT2RP3003914, NT
 2RP3004253, NT2RP4000212, NT2RP4000417, NT2RP4000925, NT2RP4001149, NT2RP4001150, N
 T2RP4001219, NT2RP4001345, NT2RP4001372, NT2RP5003522, NT2RP5003524, OVARC1000543,
 OVARC1000682, OVARC1000722, OVARC1001055, OVARC1001154, OVARC1001506, OVARC1001713
 45 , PLACE1002437, PLACE1002722, PLACE1003258, PLACE1003493, PLACE1004197, PLACE100475

1, PLACE1005698, PLACE1005804, PLACE1006157, PLACE1006754, PLACE1008643, PLACE1009094, PLACE1009861, PLACE1011371, PLACE2000034, PLACE2000062, PLACE2000399, PLACE2000458, PLACE3000009, PLACE3000020, PLACE3000353, PLACE3000373, PLACE4000052, PLACE4000230, PLACE4000522, PLACE4000581, THYRO1000852, Y79AA1001874,

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(3) The following 147 clones were predicted to encode a protein in the category of proteins associated with signal transduction (including the clones belonging to plural categories).

HEMBA1000030, HEMBA1000185, HEMBA1000303, HEMBA1000459, HEMBA1000491, HEMBA1000657, HEMBA1000991, HEMBA1001174, HEMBA1001387, HEMBA1001822, HEMBA1001921, HEMBA1002212, HEMBA1002341, HEMBA1002417, HEMBA1002810, HEMBA1002896, HEMBA1003291, HEMBA1003314, HEMBA1003560, HEMBA1003615, HEMBA1003621, HEMBA1003805, HEMBA1004286, HEMBA1004604, HEMBA1006173, HEMBA1006540, HEMBA1006973, HEMBA1007174, HEMBB1000632, HEMBB1000781, HEMBB1001051, HEMBB1001177, HEMBB1001234, HEMBB1001294, HEMBB1001384, HEMBB1002193, HEMBB1002477, HEMBB1002635, MAMMA1001305, MAMMA1002699, MAMMA1002842, MAMMA1003057, MAMMA1003113, NT2RM1000118, NT2RM1000186, NT2RM1000772, NT2RM1000850, NT2RM1001072, NT2RM2000124, NT2RM2000612, NT2RM2001065, NT2RM2001221, NT2RM2001345, NT2RM2001652, NT2RM2001983, NT2RM2002109, NT2RM2002128, NT2RM4000327, NT2RM4000354, NT2RM4000798, NT2RM4001203, NT2RM4001411, NT2RM4001412, NT2RM4001582, NT2RM4001629, NT2RM4001758, NT2RM4002226, NT2RP1000018, NT2RP1000112, NT2RP1000701, NT2RP1000825, NT2RP1001395, NT2RP1001410, NT2RP1001457, NT2RP1001482, NT2RP2002058, NT2RP2002710, NT2RP2003702, NT2RP2003912, NT2RP2004232, NT2RP2004768, NT2RP2005022, NT2RP2005620, NT2RP2005890, NT2RP3000299, NT2RP3000403, NT2RP3000742, NT2RP3000845, NT2RP3001764, NT2RP3002004, NT2RP3002785, NT2RP3002909, NT2RP3003230, NT2RP3003411, NT2RP3003464, NT2RP3003800, NT2RP3004475, NT2RP3004534, NT2RP4000147, NT2RP4000376, NT2RP4001122, NT2RP4001375, NT2RP4001644, NT2RP4001725, NT2RP4001760, NT2RP4001849, NT2RP4001927, NT2RP4002408, NT2RP5003477, OVARC1000437, OVARC1000465, OVARC1000649, OVARC1000945, OVARC1001476, OVARC1001861, PLACE1001377, PLACE1001384, PLACE1001387, PLACE1002493, PLACE1002591, PLACE1002685, PLACE1003353, PLACE1004128, PLACE1004918, PLACE1005502, PLACE1005739, PLACE1005968, PLACE1006385, PLACE1007238, PLACE1007375, PLACE1007488, PLACE1008244, PLACE1008650, PLACE1009319, PLACE1009468, PLACE1010083, PLACE1010942, PLACE1011041, PLACE1011046, PLACE1011923, PLACE2000164, PLACE3000145, PLACE3000350, PLACE3000475, THYRO1001595, Y79AA1000059, Y79AA1000966,

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(4) The following 230 clones were predicted to encode a protein in the category of proteins associated with transcription (including the clones belonging to plural categories).

HEMBA1000201, HEMBA1000216, HEMBA1000488, HEMBA1000561, HEMBA1000851, HEMBA1001137, HEMBA1001510, HEMBA1001579, HEMBA1001800, HEMBA1001809, HEMBA1001819, HEMBA1001847, HEMBA1002035, HEMBA1002092, HEMBA1002569, HEMBA1002609, HEMBA1003545, HEMBA1003568, HEMBA1003684, HEMBA1003760, HEMBA1003953, HEMBA1004097, HEMBA1004321, HEMBA1004353, HEMBA1004479, HEMBA1004758, HEMBA1005359, HEMBA1005528, HEMBA1005548, HEMBA1005931, HEMBA1006253, HEMBA1006278, HEMBA1006359, HEMBA1006559, HEMBB1000250, HEMBB1000789, HEMBB1001011, HEMBB1001314, HEMBB1001482, HEMBB1001908, HEMBB1002134, HEMBB1002217, MAMMA1000155, MAMMA1000183, MAMMA1000388, MAMMA1001633, MAMMA1001820, MAMMA1001837, MAMMA1002650, MAMMA1002937, NT2RM1000055, NT2RM1000666, NT2RM1000691, NT2RM1000894, NT2RM1001092, NT2RM2000013, NT2RM2000735, NT2RM2001035, NT2RM2001575, NT2RM2001605, NT2RM2001670, NT2RM2001771, NT2RM2001797, NT2RM2002580, NT2RM4000024, NT2RM4000104, NT2RM4000191, NT2RM4000496, NT2RM4000531, NT2RM4000734, NT2RM4000751, N

45

0092270 69462960

T2RM4000996, NT2RM4001140, NT2RM4001200, NT2RM4001483, NT2RM4001592, NT2RM4001746,
 NT2RM4001783, NT2RM4001823, NT2RM4001828, NT2RM4001858, NT2RM4001979, NT2RP1000111
 , NT2RP1000333, NT2RP1000574, NT2RP1000721, NT2RP1000860, NT2RP2000008, NT2RP200013
 3, NT2RP2000297, NT2RP2000931, NT2RP2001174, NT2RP2001233, NT2RP2002252, NT2RP20025
 03, NT2RP2002591, NT2RP2003125, NT2RP2003228, NT2RP2003293, NT2RP2003564,
 NT2RP2003714, NT2RP2004013, NT2RP2004187, NT2RP2004961, NT2RP2005003, NT2RP2005037
 , NT2RP2005287, NT2RP2005496, NT2RP2005539, NT2RP2005722, NT2RP2006238, NT2RP200646
 4, NT2RP3000050, NT2RP3000397, NT2RP3000512, NT2RP3000527, NT2RP3000590, NT2RP30006
 32, NT2RP3001057, NT2RP3001120, NT2RP3001155, NT2RP3001268, NT2RP3001398, NT2RP3001
 399, NT2RP3001671, NT2RP3001672, NT2RP3001688, NT2RP3001712, NT2RP3001792, NT2RP300
 1855, NT2RP3002165, NT2RP3002377, NT2RP3002399, NT2RP3003157, NT2RP3003193, NT2RP30
 03251, NT2RP3003327, NT2RP3004258, NT2RP3004566, NT2RP3004572, NT2RP3004594, NT2RP3
 004617, NT2RP4000078, NT2RP4000210, NT2RP4000398, NT2RP4000449, NT2RP4000787, NT2RP
 4000865, NT2RP4000997, NT2RP4001029, NT2RP4001213, NT2RP4001433, NT2RP4001529, NT2R
 P4001551, NT2RP4001638, NT2RP4001753, NT2RP4001790, NT2RP4001938, NT2RP4002078, OVA
 RC1000479, OVARC1000846, OVARC1001381, OVARC1001555, OVARC1001577, OVARC1001949, PL
 ACE1000066, PLACE1000133, PLACE1000583, PLACE1000596, PLACE1000706, PLACE1001118, P
 LACE1001238, PLACE1001304, PLACE1001602, PLACE1001632, PLACE1002450, PLACE1002532,
 PLACE1002834, PLACE1003302, PLACE1003605, PLACE1003738, PLACE1003885, PLACE1004471
 , PLACE1004510, PLACE1004681, PLACE1006414, PLACE1006438, PLACE1006482, PLACE100723
 9, PLACE1007346, PLACE1007544, PLACE1007598, PLACE1007955, PLACE1007969, PLACE10086
 27, PLACE1008941, PLACE1009099, PLACE1009246, PLACE1009398, PLACE1010261,
 PLACE1010491, PLACE1010702, PLACE1010771, PLACE1010870, PLACE1011576, PLACE2000072
 , PLACE2000359, PLACE4000128, PLACE4000156, PLACE4000259, PLACE4000431, THYRO100012
 1, THYRO1000242, THYRO1000501, THYRO1000585, THYRO1001100, THYRO1001189, Y79AA10000
 37, Y79AA1000627, Y79AA1000705, Y79AA1001105, Y79AA1001299, Y79AA1001391, Y79AA1001
 533, Y79AA1001613, Y79AA1001848, Y79AA1001866, Y79AA1002093, Y79AA1002472, Y79AA100
 2482,

- 30 (5) The following 436 clones were predicted to encode a protein in the category of proteins
 associated with diseases (including the clones belonging to plural categories).
 HEMBA1000158, HEMBA1000216, HEMBA1000523, HEMBA1000561, HEMBA1000569, HEMBA1000673
 , HEMBA1000972, HEMBA1001017, HEMBA1001019, HEMBA1001059, HEMBA1001071, HEMBA100108
 8, HEMBA1001123, HEMBA1001407, HEMBA1001569, HEMBA1001570, HEMBA1001672, HEMBA10020
 35, HEMBA1002160, HEMBA1002162, HEMBA1002547, HEMBA1002939, HEMBA1003077, HEMBA1003
 418, HEMBA1003433, HEMBA1003538, HEMBA1003555, HEMBA1003568, HEMBA1003569, HEMBA100
 3581, HEMBA1003720, HEMBA1003760, HEMBA1004168, HEMBA1004248, HEMBA1004276, HEMBA10
 04354, HEMBA1004356, HEMBA1004479, HEMBA1004534, HEMBA1004669, HEMBA1004752, HEMBA1
 004753, HEMBA1004807, HEMBA1005293, HEMBA1005331, HEMBA1005359, HEMBA1005367, HEMBA
 40 1005423, HEMBA1005443, HEMBA1005475, HEMBA1005528, HEMBA1005576, HEMBA1005581, HEMB
 A1005679, HEMBA1005699, HEMBA1005732, HEMBA1005931, HEMBA1006173, HEMBA1006474, HEM
 BA1006562, HEMBA1006648, HEMBA1006652, HEMBA1006737, HEMBA1006807, HEMBA1006976, HE
 MBA1007078, HEMBA1007121, HEMBA1007243, HEMBA1007301, HEMBB1000264, HEMBB1000637, H
 EMBB1000684, HEMBB1000693, HEMBB1000915, HEMBB1000927, HEMBB1001011, HEMBB1001051,
 45 HEMBB1001068, HEMBB1001102, HEMBB1001119, HEMBB1001133, HEMBB1001177, HEMBB1001802
 , HEMBB1001908, HEMBB1001922, HEMBB1001967, HEMBB1002050, HEMBB1002193, HEMBB100221

7, HEMBB1002358, HEMBB1002635, HEMBB1002683, MAMMA1000009, MAMMA1000092, MAMMA10001
 03, MAMMA1000173, MAMMA1000731, MAMMA1000897, MAMMA1000956, MAMMA1001021,
 MAMMA1001041, MAMMA1001105, MAMMA1001198, MAMMA1001305, MAMMA1001576, MAMMA1001633
 , MAMMA1002140, MAMMA1002170, MAMMA1002198, MAMMA1002268, MAMMA1002352, MAMMA100239
 5 2, MAMMA1002485, MAMMA1002530, MAMMA1002573, MAMMA1002636, MAMMA1002858, MAMMA10028
 69, MAMMA1002881, MAMMA1002937, MAMMA1003047, MAMMA1003099, MAMMA1003146, MAMMA1003
 166, NT2RM1000035, NT2RM1000153, NT2RM1000257, NT2RM1000318, NT2RM1000377, NT2RM100
 0394, NT2RM1000555, NT2RM1000691, NT2RM1000725, NT2RM1000770, NT2RM1000826, NT2RM10
 00850, NT2RM1001059, NT2RM1001072, NT2RM1001082, NT2RM1001092, NT2RM2000363, NT2RM2
 10 000374, NT2RM2000594, NT2RM2000599, NT2RM2000714, NT2RM2000740, NT2RM2000821, NT2RM
 2001035, NT2RM2001499, NT2RM2001575, NT2RM2001605, NT2RM2001664, NT2RM2001670, NT2R
 M2001803, NT2RM2001823, NT2RM2001839, NT2RM4000085, NT2RM4000139, NT2RM4000155, NT2
 RM4000290, NT2RM4000689, NT2RM4000895, NT2RM4001320, NT2RM4001566, NT2RM4001629, NT
 2RM4001741, NT2RM4001819, NT2RM4001823, NT2RM4001865, NT2RM4001940, NT2RM4002093, N
 15 T2RM4002146, NT2RM4002161, NT2RM4002189, NT2RM4002457, NT2RM4002558, NT2RM4002571,
 NT2RP1000086, NT2RP1000376, NT2RP1000574, NT2RP1000581, NT2RP1000629, NT2RP1000721
 , NT2RP1000733, NT2RP1000738, NT2RP1000825, NT2RP1000833, NT2RP1000860, NT2RP100096
 6, NT2RP1001033, NT2RP1001247, NT2RP2000126, NT2RP2000147, NT2RP2000233, NT2RP20002
 97, NT2RP2000310, NT2RP2000414, NT2RP2000448, NT2RP2000459, NT2RP2000603,
 20 NT2RP2000812, NT2RP2001127, NT2RP2001327, NT2RP2001440, NT2RP2001520, NT2RP2001663
 , NT2RP2001748, NT2RP2001876, NT2RP2001898, NT2RP2002025, NT2RP2002066, NT2RP200225
 9, NT2RP2002312, NT2RP2002503, NT2RP2002618, NT2RP2003228, NT2RP2003293, NT2RP20032
 95, NT2RP2003517, NT2RP2003564, NT2RP2003706, NT2RP2003737, NT2RP2003968, NT2RP2004
 013, NT2RP2004098, NT2RP2004187, NT2RP2004316, NT2RP2004523, NT2RP2004538, NT2RP200
 25 4933, NT2RP2005144, NT2RP2005288, NT2RP2005289, NT2RP2005325, NT2RP2005358, NT2RP20
 05531, NT2RP2005773, NT2RP2006219, NT2RP3000050, NT2RP3000080, NT2RP3000299, NT2RP3
 000397, NT2RP3000512, NT2RP3000527, NT2RP3001081, NT2RP3001216, NT2RP3001268, NT2RP
 3001355, NT2RP3001427, NT2RP3001428, NT2RP3001497, NT2RP3001554, NT2RP3001724, NT2R
 30 P3001764, NT2RP3001799, NT2RP3001855, NT2RP3002045, NT2RP3002151, NT2RP3002351, NT2
 RP3002352, NT2RP3002663, NT2RP3002818, NT2RP3002876, NT2RP3002909, NT2RP3002972, NT
 2RP3003061, NT2RP3003157, NT2RP3003242, NT2RP3003282, NT2RP3003672, NT2RP3004078, N
 T2RP3004209, NT2RP3004399, NT2RP3004424, NT2RP3004475, NT2RP3004480, NT2RP3004490,
 NT2RP3004527, NT2RP3004578, NT2RP4000049, NT2RP4000109, NT2RP4000185, NT2RP4000312
 , NT2RP4000367, NT2RP4000398, NT2RP4000457, NT2RP4000855, NT2RP4000879, NT2RP400091
 35 5, NT2RP4000928, NT2RP4001095, NT2RP4001150, NT2RP4001213, NT2RP4001483, NT2RP40014
 98, NT2RP4001753, NT2RP4001838, OVARC1000014, OVARC1000114, OVARC1000139,
 OVARC1000241, OVARC1000440, OVARC1000543, OVARC1000722, OVARC1000771, OVARC1000834
 , OVARC1000850, OVARC1001113, OVARC1001244, OVARC1001296, OVARC1001357, OVARC100137
 2, OVARC1001417, OVARC1001496, OVARC1001506, OVARC1001577, OVARC1001668, OVARC10017
 40 13, OVARC1001809, OVARC1001880, OVARC1001901, OVARC1001949, OVARC1002050, PLACE1000
 133, PLACE1000142, PLACE1000184, PLACE1000383, PLACE1000406, PLACE1000420, PLACE100
 0583, PLACE1000588, PLACE1000706, PLACE1001384, PLACE1001387, PLACE1001517, PLACE10
 01602, PLACE1001634, PLACE1001771, PLACE1002046, PLACE1002437, PLACE1002474, PLACE1
 002665, PLACE1002834, PLACE1003302, PLACE1003493, PLACE1003704, PLACE1003888, PLACE
 45 1003903, PLACE1003968, PLACE1004197, PLACE1004358, PLACE1004471, PLACE1004681, PLAC
 E1004751, PLACE1004773, PLACE1005101, PLACE1006040, PLACE1006119, PLACE1006170, PLA

000210 69462260

CE1006187, PLACE1006288, PLACE1006414, PLACE1006438, PLACE1006962, PLACE1007239, PLACE1007257, PLACE1007488, PLACE1007511, PLACE1007737, PLACE1008000, PLACE1008402, PLACE1008643, PLACE1008696, PLACE1008941, PLACE1009027, PLACE1009200, PLACE1009230, PLACE1009298, PLACE1009319, PLACE1009444, PLACE1009524, PLACE1010083, PLACE1010089, PLACE1010599, PLACE1010833, PLACE1010856, PLACE1011054, PLACE1011057, PLACE1011165, PLACE1011229, PLACE1011263, PLACE1011371, PLACE2000072, PLACE2000399, PLACE2000438, PLACE2000458, PLACE3000004, PLACE3000242, PLACE3000352, PLACE3000353, PLACE3000455, PLACE3000475, PLACE4000009, PLACE4000014, PLACE4000052, PLACE4000320, PLACE4000581, SKNMC1000050, THYRO1000026, THYRO1000173, THYRO1000186, THYRO1000320, THYRO1000327, THYRO1000387, THYRO1000471, THYRO1000934, THYRO1001458, THYRO1001595, THYRO1001605, THYRO1001617, THYRO1001671, Y79AA1000037, Y79AA1000469, Y79AA1000539, Y79AA1000560, Y79AA1000734, Y79AA1000985, Y79AA1001105, Y79AA1001391, Y79AA1001394, Y79AA1001548, Y79AA1001613, Y79AA1001874, Y79AA1002258, Y79AA1002416, Y79AA1002482,

(6) The following 301 clones were predicted to encode a protein in the category of enzyme or proteins associated with metabolism (including the clones belonging to plural categories).
 HEMBA1000012, HEMBA1000459, HEMBA1000852, HEMBA1001059, HEMBA1001257, HEMBA1001620, HEMBA1001714, HEMBA1001744, HEMBA1001896, HEMBA1002003, HEMBA1002212, HEMBA1002257, HEMBA1002513, HEMBA1002973, HEMBA1003046, HEMBA1003136, HEMBA1003179, HEMBA1003286, HEMBA1003291, HEMBA1003538, HEMBA1003680, HEMBA1004227, HEMBA1004408, HEMBA1004734, HEMBA1004795, HEMBA1005513, HEMBA1005737, HEMBA1005815, HEMBA1006278, HEMBA1006347, HEMBA1006521, HEMBA1006648, HEMBA1006877, HEMBA1006941, HEMBA1006976, HEMBA1007121, HEMBA1007243, HEMBA1007300, HEMBB1000781, HEMBB1000915, HEMBB1001288, HEMBB1001429, HEMBB1001443, HEMBB1001915, HEMBB1002042, HEMBB1002342, HEMBB1002358, HEMBB1002635, HEMBB1002683, MAMMA1000020, MAMMA1000085, MAMMA1000672, MAMMA1000841, MAMMA1001008, MAMMA1001139, MAMMA1001476, MAMMA1001501, MAMMA1002268, MAMMA1002530, MAMMA1002619, MAMMA1002671, MAMMA1002938, NT2RM1000132, NT2RM1000153, NT2RM1000256, NT2RM1000280, NT2RM1000377, NT2RM1000648, NT2RM1000850, NT2RM1000867, NT2RM1000894, NT2RM1001072, NT2RM2000013, NT2RM2000124, NT2RM2000191, NT2RM2000368, NT2RM2000371, NT2RM2000577, NT2RM2000594, NT2RM2000599, NT2RM2000951, NT2RM2001238, NT2RM2001664, NT2RM2001700, NT2RM2001730, NT2RM2001785, NT2RM2001803, NT2RM2002030, NT2RM4000024, NT2RM4000155, NT2RM4000344, NT2RM4000496, NT2RM4000616, NT2RM4000712, NT2RM4000895, NT2RM4001313, NT2RM4001316, NT2RM4001340, NT2RM4001444, NT2RM4001758, NT2RM4001819, NT2RM4001930, NT2RM4002062, NT2RM4002063, NT2RM4002409, NT2RM4002558, NT2RM4002571, NT2RM4002623, NT2RP1000018, NT2RP1000112, NT2RP1000376, NT2RP1000609, NT2RP1000833, NT2RP1000834, NT2RP1001079, NT2RP1001253, NT2RP1001361, NT2RP1001543, NT2RP2000056, NT2RP2000114, NT2RP2000183, NT2RP2000329, NT2RP2000422, NT2RP2000710, NT2RP2000764, NT2RP2000932, NT2RP2001070, NT2RP2001663, NT2RP2001839, NT2RP2001898, NT2RP2002256, NT2RP2002312, NT2RP2002442, NT2RP2002595, NT2RP2002618, NT2RP2002993, NT2RP2003230, NT2RP2003286, NT2RP2003506, NT2RP2003643, NT2RP2003706, NT2RP2003737, NT2RP2003781, NT2RP2003912, NT2RP2004232, NT2RP2004239, NT2RP2004768, NT2RP2004791, NT2RP2004799, NT2RP2005038, NT2RP2005276, NT2RP2005344, NT2RP2005457, NT2RP2005498, NT2RP2005531, NT2RP2005557, NT2RP2005690, NT2RP2005773, NT2RP2005775, NT2RP2005942, NT2RP2006571, NT2RP3000046, NT2RP3000085, NT2RP3000359, NT2RP3000418, NT2RP3000742, NT2RP3000845, NT2RP3000875, NT2RP3001274, NT2RP3001407, NT2RP3001495, NT

T2RP3002351, NT2RP3002402, NT2RP3002969, NT2RP3003301, NT2RP3003346, NT2RP3003500, NT2RP3003800, NT2RP3003825, NT2RP3003831, NT2RP3003914, NT2RP3004155, NT2RP3004209, NT2RP3004669, NT2RP3004670, NT2RP4000259, NT2RP4000417, NT2RP4000457, NT2RP4000724, NT2RP4000855, NT2RP4000928, NT2RP4000997, NT2RP4001041, NT2RP4001079, NT2RP4001095, NT2RP4001219, NT2RP4001345, NT2RP4001375, NT2RP4001483, NT2RP4001592, NT2RP4001644, NT2RP4001893, NT2RP4001946, NT2RP4002408, NT2RP5003500, NT2RP5003522, OVARC1000060, OVARC1000139, OVARC1000309, OVARC1000543, OVARC1000682, OVARC1000722, OVARC1000885, OVARC1001261, OVARC1001610, OVARC1001713, OVARC1001762, OVARC1001809, OVARC1001942, PLACE1000007, PLACE1000142, PLACE1000420, PLACE1000547, PLACE1000653, PLACE1001062, PLACE1001603, PLACE1001692, PLACE1001817, PLACE1001989, PLACE1002991, PLACE1003100, PLACE1003709, PLACE1003885, PLACE1003888, PLACE1003903, PLACE1003915, PLACE1003968, PLACE1004428, PLACE1004437, PLACE1004751, PLACE1005305, PLACE1005477, PLACE1005656, PLACE1005763, PLACE1005804, PLACE1006011, PLACE1006469, PLACE1006731, PLACE1007729, PLACE1007958, PLACE1008275, PLACE1008356, PLACE1008696, PLACE1009444, PLACE1009861, PLACE1009997, PLACE1010089, PLACE1010096, PLACE1010106, PLACE1010152, PLACE1010481, PLACE1011046, PLACE1011203, PLACE1011219, PLACE1011229, PLACE1011332, PLACE1011923, PLACE2000021, PLACE2000140, PLACE2000404, PLACE2000411, PLACE3000020, PLACE3000148, PLACE3000156, PLACE3000350, PLACE3000353, PLACE4000259, PLACE4000431, PLACE4000558, PLACE4000590, SKNMC1000050, THYRO1000017, THYRO1000197, THYRO1000320, THYRO1000358, THYRO1000471, THYRO1000926, THYRO1000934, THYRO1000951, THYRO1001406, THYRO1001617, THYRO1001671, Y79AA1001048, Y79AA1001233, Y79AA1001581, Y79AA1001679, Y79AA1001827, Y79AA1002027, Y79AA1002209, Y79AA1002361, Y79AA1002416,

(7) The following 74 clones were predicted to encode a protein in the category of proteins associated with cell division or cell proliferation (including the clones belonging to plural categories).

HEMBA1001019, HEMBA1001595, HEMBA1002229, HEMBA1002363, HEMBA1003136, HEMBA1003836, HEMBA1004131, HEMBA1005241, HEMBB1000399, HEMBB1001175, HEMBB1001242, MAMMA1001820, MAMMA1003011, NT2RM1000394, NT2RM2001256, NT2RM4000215, NT2RM4001611, NT2RM4001714, NT2RP1000733, NT2RP1001177, NT2RP2000077, NT2RP2000346, NT2RP2001397, NT2RP2003912, NT2RP2005520, NT2RP2005675, NT2RP2005767, NT2RP2005857, NT2RP2006464, NT2RP3000031, NT2RP3001155, NT2RP3001730, NT2RP3002151, NT2RP3002273, NT2RP3002399, NT2RP3004507, NT2RP3004578, NT2RP3004594, NT2RP4000210, NT2RP4000498, NT2RP4001207, NT2RP4001414, NT2RP4001551, OVARC1000006, OVARC1000087, OVARC1000113, OVARC1000846, OVARC1000876, OVARC1001068, OVARC1001107, OVARC1001113, OVARC1002112, PLACE1000547, PLACE1001611, PLACE1001691, PLACE1002775, PLACE1002811, PLACE1003709, PLACE1004316, PLACE1004674, PLACE1004814, PLACE1005287, PLACE1006187, PLACE1006368, PLACE1008808, PLACE1008947, PLACE1009060, PLACE1010720, PLACE1010761, PLACE1010833, PLACE1011056, PLACE3000244, Y79AA1000214, Y79AA1001236,

(8) The following 92 clones were predicted to encode a protein in the category of proteins associated with cytoskeleton (including the clones belonging to plural categories).

HEMBA1000020, HEMBA1000588, HEMBA1001804, HEMBA1002102, HEMBA1002161, HEMBA1002939, HEMBA1003235, HEMBA1003581, HEMBA1004534, HEMBA1005009, HEMBA1005595, HEMBA1006272, HEMBA1006737, HEMBA1007018, HEMBB1000404, HEMBB1001282, MAMMA1000173, MAMMA1000429, MAMMA1001041, MAMMA1001576, MAMMA1001735, MAMMA1002622, MAMMA1002637, MAMMA1003

099, MAMMA1003127, NT2RM1000898, NT2RM1001003, NT2RM1001139, NT2RM2000691, NT2RM4000030, NT2RM4000167, NT2RM4000689, NT2RM4001741, NT2RM4001776, NT2RM4002109, NT2RP1000348, NT2RP1000460, NT2RP1000478, NT2RP1001033, NT2RP2000812, NT2RP2001634, NT2RP2001900, NT2RP2002727, NT2RP2003307, NT2RP2003604, NT2RP2004538, NT2RP2005531, NT2RP3000868, NT2RP3001216, NT2RP3001272, NT2RP3002688, NT2RP3003061, NT2RP3003138, NT2RP3003230, NT2RP3003282, NT2RP3004454, NT2RP3004569, NT2RP4001126, NT2RP4001927, OVARC1000437, OVARC1000520, OVARC1000679, OVARC1001731, OVARC1002050, PLACE1002571, PLACE1002591, PLACE1002655, PLACE1003669, PLACE1004777, PLACE1005287, PLACE1006368, PLACE1007105, PLACE1010310, PLACE1010743, PLACE1010960, PLACE1011263, PLACE2000039, PLACE2000216, PLACE2000274, PLACE3000145, PLACE3000322, PLACE4000009, PLACE4000612, THYRO1000072, THYRO1000666, THYRO1001121, THYRO1001458, Y79AA1000368, Y79AA1000833, Y79AA1000962, Y79AA1000985, Y79AA1002208,

(9) The following 280 clones were predicted to encode a protein in the category of proteins associated with RNA synthesis (including the clones belonging to plural categories).

HEMBA1000201, HEMBA1000216, HEMBA1000488, HEMBA1000561, HEMBA1000591, HEMBA1000851, HEMBA1001137, HEMBA1001510, HEMBA1001579, HEMBA1001800, HEMBA1001809, HEMBA1001819, HEMBA1001847, HEMBA1002035, HEMBA1002092, HEMBA1002569, HEMBA1002609, HEMBA1003418, HEMBA1003545, HEMBA1003568, HEMBA1003684, HEMBA1003760, HEMBA1003953, HEMBA1004097, HEMBA1004321, HEMBA1004353, HEMBA1004479, HEMBA1004669, HEMBA1004758, HEMBA1005359, HEMBA1005528, HEMBA1005548, HEMBA1005931, HEMBA1006253, HEMBA1006278, HEMBA1006359, HEMBA1006559, HEMBA1006639, HEMBB1000250, HEMBB1000789, HEMBB1001011, HEMBB1001314, HEMBB1001482, HEMBB1001908, HEMBB1002134, HEMBB1002217, MAMMA1000155, MAMMA1000183, MAMMA1000388, MAMMA1001059, MAMMA1001633, MAMMA1001820, MAMMA1001837, MAMMA1002650, MAMMA1002937, NT2RM1000055, NT2RM1000187, NT2RM1000666, NT2RM1000691, NT2RM1000852, NT2RM1000894, NT2RM1001092, NT2RM2000013, NT2RM2000735, NT2RM2001035, NT2RM2001424, NT2RM2001575, NT2RM2001605, NT2RM2001670, NT2RM2001771, NT2RM2001797, NT2RM2001989, NT2RM2002100, NT2RM2002580, NT2RM4000024, NT2RM4000104, NT2RM4000191, NT2RM4000421, NT2RM4000471, NT2RM4000496, NT2RM4000531, NT2RM4000734, NT2RM4000751, NT2RM4000996, NT2RM4001140, NT2RM4001200, NT2RM4001483, NT2RM4001592, NT2RM4001746, NT2RM4001783, NT2RM4001823, NT2RM4001828, NT2RM4001858, NT2RM4001979, NT2RM4002093, NT2RM4002479, NT2RP1000111, NT2RP1000272, NT2RP1000333, NT2RP1000470, NT2RP1000574, NT2RP1000721, NT2RP1000860, NT2RP1001080, NT2RP2000008, NT2RP2000133, NT2RP2000161, NT2RP2000297, NT2RP2000931, NT2RP2001174, NT2RP2001233, NT2RP2001449, NT2RP2002099, NT2RP2002252, NT2RP2002503, NT2RP2002591, NT2RP2002928, NT2RP2003125, NT2RP2003228, NT2RP2003293, NT2RP2003564, NT2RP2003714, NT2RP2004013, NT2RP2004187, NT2RP2004568, NT2RP2004961, NT2RP2005003, NT2RP2005037, NT2RP2005126, NT2RP2005168, NT2RP2005239, NT2RP2005287, NT2RP2005496, NT2RP2005539, NT2RP2005722, NT2RP2005763, NT2RP2005942, NT2RP2006238, NT2RP2006464, NT2RP3000050, NT2RP3000361, NT2RP3000397, NT2RP3000512, NT2RP3000527, NT2RP3000590, NT2RP3000632, NT2RP3000917, NT2RP3001057, NT2RP3001120, NT2RP3001155, NT2RP3001268, NT2RP3001398, NT2RP3001399, NT2RP3001671, NT2RP3001672, NT2RP3001688, NT2RP3001712, NT2RP3001792, NT2RP3001855, NT2RP3002165, NT2RP3002377, NT2RP3002399, NT2RP3003157, NT2RP3003193, NT2RP3003251, NT2RP3003327, NT2RP3004013, NT2RP3004258, NT2RP3004504, NT2RP3004566, NT2RP3004572, NT2RP3004594, NT2RP3004617, NT2RP4000078, NT2RP4000111, NT2RP4000210, NT2RP4000398, NT2RP4000449, NT2RP4000518, NT2RP4000614, NT2RP4000787, NT2RP4000865, NT2RP4000997

, NT2RP4001029, NT2RP4001080, NT2RP4001148, NT2RP4001213, NT2RP4001433, NT2RP4001529, NT2RP4001551, NT2RP4001638, NT2RP4001753, NT2RP4001790, NT2RP4001938, NT2RP4002078, OVARC1000479, OVARC1000846, OVARC1001381, OVARC1001555, OVARC1001577, OVARC1001949, PLACE1000066, PLACE1000133, PLACE1000583, PLACE1000596, PLACE1000706, PLACE1001118, PLACE1001238, PLACE1001304, PLACE1001602, PLACE1001632, PLACE1002450, PLACE1002532, PLACE1002834, PLACE1003190, PLACE1003302, PLACE1003605, PLACE1003704, PLACE1003738, PLACE1003885, PLACE1004471, PLACE1004510, PLACE1004564, PLACE1004681, PLACE1004902, PLACE1005646, PLACE1005876, PLACE1006196, PLACE1006414, PLACE1006438, PLACE1006482, PLACE1007239, PLACE1007346, PLACE1007544, PLACE1007598, PLACE1007955, PLACE1007969, PLACE1008627, PLACE1008941, PLACE1009099, PLACE1009246, PLACE1009398, PLACE1010053, PLACE1010194, PLACE1010261, PLACE1010491, PLACE1010580, PLACE1010702, PLACE1010771, PLACE1010870, PLACE1011576, PLACE2000072, PLACE2000359, PLACE4000128, PLACE4000156, PLACE4000259, PLACE4000431, THYRO1000121, THYRO1000242, THYRO1000501, THYRO1000585, THYRO1001100, THYRO1001189, Y79AA1000037, Y79AA1000349, Y79AA1000539, Y79AA1000627, Y79AA1000705, Y79AA1000752, Y79AA1001105, Y79AA1001299, Y79AA1001391, Y79AA1001533, Y79AA1001613, Y79AA1001848, Y79AA1001866, Y79AA1001963, Y79AA1002093, Y79AA1002472, Y79AA1002482,

(10) The following 352 clones were predicted to encode a protein in the category of nuclear protein (including the clones belonging to plural categories).

HEMBA1000005, HEMBA1000201, HEMBA1000216, HEMBA1000488, HEMBA1000561, HEMBA1000827, HEMBA1000851, HEMBA1001088, HEMBA1001137, HEMBA1001476, HEMBA1001510, HEMBA1001579, HEMBA1001800, HEMBA1001809, HEMBA1001819, HEMBA1001847, HEMBA1002035, HEMBA1002092, HEMBA1002363, HEMBA1002495, HEMBA1002569, HEMBA1002609, HEMBA1002999, HEMBA1003148, HEMBA1003418, HEMBA1003545, HEMBA1003568, HEMBA1003684, HEMBA1003760, HEMBA1003783, HEMBA1003953, HEMBA1004097, HEMBA1004321, HEMBA1004353, HEMBA1004479, HEMBA1004669, HEMBA1004758, HEMBA1005359, HEMBA1005475, HEMBA1005528, HEMBA1005548, HEMBA1005931, HEMBA1006253, HEMBA1006278, HEMBA1006359, HEMBA1006474, HEMBA1006559, HEMBA1006914, HEMBB1000250, HEMBB1000399, HEMBB1000789, HEMBB1001011, HEMBB1001314, HEMBB1001482, HEMBB1001908, HEMBB1001915, HEMBB1002134, HEMBB1002217, MAMMA1000155, MAMMA1000183, MAMMA1000388, MAMMA1000731, MAMMA1001633, MAMMA1001820, MAMMA1001837, MAMMA1002650, MAMMA1002869, MAMMA1002937, MAMMA1003011, NT2RM1000055, NT2RM1000187, NT2RM1000257, NT2RM1000394, NT2RM1000666, NT2RM1000691, NT2RM1000852, NT2RM1000894, NT2RM1001092, NT2RM2000013, NT2RM2000735, NT2RM2001035, NT2RM2001575, NT2RM2001605, NT2RM2001635, NT2RM2001670, NT2RM2001771, NT2RM2001797, NT2RM2001823, NT2RM2001936, NT2RM2001989, NT2RM2002100, NT2RM2002580, NT2RM4000024, NT2RM4000085, NT2RM4000104, NT2RM4000191, NT2RM4000215, NT2RM4000290, NT2RM4000421, NT2RM4000496, NT2RM4000531, NT2RM4000734, NT2RM4000751, NT2RM4000996, NT2RM4001140, NT2RM4001200, NT2RM4001217, NT2RM4001382, NT2RM4001483, NT2RM4001592, NT2RM4001605, NT2RM4001611, NT2RM4001746, NT2RM4001783, NT2RM4001823, NT2RM4001828, NT2RM4001858, NT2RM4001979, NT2RM4002093, NT2RM4002146, NT2RM4002527, NT2RP1000035, NT2RP1000111, NT2RP1000333, NT2RP1000493, NT2RP1000574, NT2RP1000721, NT2RP1000860, NT2RP1000966, NT2RP1001177, NT2RP2000008, NT2RP2000126, NT2RP2000133, NT2RP2000161, NT2RP2000297, NT2RP2000414, NT2RP2000931, NT2RP2001174, NT2RP2001233, NT2RP2001420, NT2RP2001449, NT2RP2001536, NT2RP2001762, NT2RP2002185, NT2RP2002252, NT2RP2002259, NT2RP2002503, NT2RP2002504, NT2RP2002591, NT2RP2002993, NT2RP2003125, NT2RP2003228, NT2RP2003277, NT2R

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P2003286, NT2RP2003293, NT2RP2003308, NT2RP2003564, NT2RP2003714, NT2RP2004013, NT2RP2004187, NT2RP2004961, NT2RP2005003, NT2RP2005037, NT2RP2005287, NT2RP2005496, NT2RP2005520, NT2RP2005539, NT2RP2005722, NT2RP2005767, NT2RP2005857, NT2RP2005942, NT2RP2006238, NT2RP2006464, NT2RP3000031, NT2RP3000050, NT2RP3000361, NT2RP3000397, NT2RP3000512, NT2RP3000527, NT2RP3000590, NT2RP3000603, NT2RP3000632, NT2RP3000917, NT2RP3001057, NT2RP3001120, NT2RP3001155, NT2RP3001268, NT2RP3001274, NT2RP3001398, NT2RP3001399, NT2RP3001427, NT2RP3001428, NT2RP3001587, NT2RP3001671, NT2RP3001672, NT2RP3001688, NT2RP3001712, NT2RP3001724, NT2RP3001792, NT2RP3001855, NT2RP3002056, NT2RP3002165, NT2RP3002377, NT2RP3002399, NT2RP3003157, NT2RP3003193, NT2RP3003212, NT2RP3003251, NT2RP3003327, NT2RP3004206, NT2RP3004209, NT2RP3004258, NT2RP3004566, NT2RP3004572, NT2RP3004594, NT2RP3004617, NT2RP4000078, NT2RP4000111, NT2RP4000150, NT2RP4000210, NT2RP4000398, NT2RP4000449, NT2RP4000457, NT2RP4000518, NT2RP4000787, NT2RP4000865, NT2RP4000997, NT2RP4001029, NT2RP4001080, NT2RP4001148, NT2RP4001207, NT2RP4001213, NT2RP4001433, NT2RP4001529, NT2RP4001551, NT2RP4001638, NT2RP4001753, NT2RP4001790, NT2RP4001938, NT2RP4002078, OVARC1000006, OVARC1000087, OVARC1000139, OVARC1000326, OVARC1000440, OVARC1000479, OVARC1000846, OVARC1000883, OVARC1001180, OVARC1001244, OVARC1001381, OVARC1001555, OVARC1001577, OVARC1001702, OVARC1001949, OVARC1002112, PLACE1000066, PLACE1000133, PLACE1000406, PLACE1000583, PLACE1000596, PLACE1000706, PLACE1001118, PLACE1001238, PLACE1001304, PLACE1001602, PLACE1001611, PLACE1001632, PLACE1002450, PLACE1002532, PLACE1002834, PLACE1003100, PLACE1003190, PLACE1003302, PLACE1003605, PLACE1003704, PLACE1003738, PLACE1003885, PLACE1004471, PLACE1004510, PLACE1004564, PLACE1004681, PLACE1004902, PLACE1005287, PLACE1005876, PLACE1006011, PLACE1006119, PLACE1006414, PLACE1006438, PLACE1006482, PLACE1007239, PLACE1007346, PLACE1007544, PLACE1007598, PLACE1007955, PLACE1007969, PLACE1008044, PLACE1008177, PLACE1008603, PLACE1008627, PLACE1008941, PLACE1008947, PLACE1009099, PLACE1009113, PLACE1009246, PLACE1009398, PLACE1010152, PLACE1010194, PLACE1010261, PLACE1010491, PLACE1010702, PLACE1010720, PLACE1010771, PLACE1010870, PLACE1011056, PLACE1011229, PLACE1011576, PLACE1011664, PLACE2000072, PLACE2000359, PLACE2000411, PLACE4000014, PLACE4000128, PLACE4000156, PLACE4000259, PLACE4000261, PLACE4000431, THYRO1000121, THYRO1000242, THYRO1000501, THYRO1000585, THYRO1001100, THYRO1001189, Y79AA1000037, Y79AA1000214, Y79AA1000539, Y79AA1000589, Y79AA1000627, Y79AA1000705, Y79AA1000752, Y79AA1000784, Y79AA1001105, Y79AA1001299, Y79AA1001391, Y79AA1001533, Y79AA1001613, Y79AA1001848, Y79AA1001866, Y79AA1001963, Y79AA1002093, Y79AA1002472, Y79AA1002482,

(11) The following 111 clones were predicted to encode a protein in the category of proteins associated with protein synthesis or transport (including the clones belonging to plural categories). HEMBA1000012, HEMBA1000542, HEMBA1001913, HEMBA1003773, HEMBA1004202, HEMBA1004356, HEMBA1004847, HEMBA1005047, HEMBA1005202, HEMBA1005963, HEMBA1006310, HEMBA1006652, HEMBA1006914, HEMBB1000217, HEMBB1000725, HEMBB1001346, HEMBB1001831, MAMMA1000085, MAMMA1000734, MAMMA1002170, MAMMA1002236, MAMMA1002598, NT2RM1000661, NT2RM2000504, NT2RM2000577, NT2RM2001131, NT2RM4000155, NT2RM4001444, NT2RM4002062, NT2RM4002205, NT2RM4002623, NT2RP1000326, NT2RP1000947, NT2RP1001569, NT2RP2000710, NT2RP2000880, NT2RP2001290, NT2RP2001511, NT2RP2001660, NT2RP2002185, NT2RP2002606, NT2RP2002959, NT2RP2002980, NT2RP2003158, NT2RP2003760, NT2RP2004194, NT2RP2004791, NT2RP2005012, NT2RP2005116, NT2RP2005204, NT2RP2006565, NT2RP2006598, NT2RP3000047, NT2R

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P3000366, NT2RP3000759, NT2RP3000968, NT2RP3001587, NT2RP3002529, NT2RP3003385, NT2RP3003589, NT2RP3003876, NT2RP3004618, NT2RP4000370, NT2RP4000524, NT2RP4000528, NT2RP4001041, NT2RP4001574, NT2RP4001592, NT2RP4002047, OVARC1000004, OVARC1000771, OVARC1000862, OVARC1001180, OVARC1001342, OVARC1001766, OVARC1002138, PLACE1000061, PLACE1000492, PLACE1000863, PLACE1001748, PLACE1002090, PLACE1003394, PLACE1003915, PLACE1004149, PLACE1004743, PLACE1005557, PLACE1005813, PLACE1006488, PLACE1006531, PLACE1006615, PLACE1007706, PLACE1008273, PLACE1008790, PLACE1008813, PLACE1009721, PLACE1009763, PLACE1009845, PLACE1010074, PLACE1011109, PLACE1011477, PLACE2000404, PLACE3000059, PLACE3000121, PLACE4000558, PLACE4000654, SKNMC1000011, THYRO1000288, THYRO1000974, Y79AA1000346, Y79AA1000968, Y79AA1002209,

(12) The following 23 clones were predicted to encode a protein in the category of proteins associated with cellular defense (including the clones belonging to plural categories).

HEMBA1000005, HEMBA1000531, HEMBB1000217, HEMBB1000399, MAMMA1000734, NT2RP1000493, NT2RP1000493, NT2RP2000006, NT2RP2000045, NT2RP2001536, NT2RP2005204, NT2RP3000590, NT2RP3001426, NT2RP3002056, NT2RP3004262, NT2RP4001638, OVARC1001900, PLACE1005611, PLACE1006958, PLACE1008275, PLACE1009113, PLACE4000014, Y79AA1002139,

(13) The following 23 clones were predicted to encode a protein in the category of proteins associated with development or growth (including the clones belonging to plural categories).

HEMBA1000005, HEMBA1000531, HEMBB1000217, HEMBB1000399, MAMMA1000734, NT2RP1000493, NT2RP1000493, NT2RP2000006, NT2RP2000045, NT2RP2001536, NT2RP2005204, NT2RP3000590, NT2RP3001426, NT2RP3002056, NT2RP3004262, NT2RP4001638, OVARC1001900, PLACE1005611, PLACE1006958, PLACE1008275, PLACE1009113, PLACE4000014, Y79AA1002139,

Table 9

Selected clones having the maximal ATGpr1 score of 0.3 or higher (3690 clones).

clone name	name of sequence	maximal ATGpr1 score
HEMBA1000005	F-HEMBA1000005	0.84
HEMBA1000012	F-HEMBA1000012	0.56
HEMBA1000020	F-HEMBA1000020	0.94
HEMBA1000030	F-HEMBA1000030	0.44
HEMBA1000046	F-HEMBA1000046	0.50
HEMBA1000050	F-HEMBA1000050	0.94
HEMBA1000076	F-HEMBA1000076	0.48
HEMBA1000129	F-HEMBA1000129	0.74
HEMBA1000141	F-HEMBA1000141	0.55
HEMBA1000150	F-HEMBA1000150	0.72
HEMBA1000156	F-HEMBA1000156	0.94
HEMBA1000158	F-HEMBA1000158	0.62
HEMBA1000168	F-HEMBA1000168	0.94
HEMBA1000185	F-HEMBA1000185	0.86
HEMBA1000193	F-HEMBA1000193	0.94

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	HEMBA1000201	F-HEMBA1000201	0. 83
	HEMBA1000216	F-HEMBA1000216	0. 32
	HEMBA1000227	F-HEMBA1000227	0. 72
	HEMBA1000231	F-HEMBA1000231	0. 34
5	HEMBA1000244	F-HEMBA1000244	0. 51
	HEMBA1000288	F-HEMBA1000288	0. 36
	HEMBA1000290	F-HEMBA1000290	0. 45
	HEMBA1000302	F-HEMBA1000302	0. 71
	HEMBA1000303	F-HEMBA1000303	0. 42
10	HEMBA1000304	F-HEMBA1000304	0. 45
	HEMBA1000307	F-HEMBA1000307	0. 48
	HEMBA1000327	F-HEMBA1000327	0. 94
	HEMBA1000356	F-HEMBA1000356	0. 90
	HEMBA1000369	F-HEMBA1000369	0. 94
15	HEMBA1000387	F-HEMBA1000387	0. 66
	HEMBA1000392	F-HEMBA1000392	0. 60
	HEMBA1000396	F-HEMBA1000396	0. 81
	HEMBA1000456	F-HEMBA1000456	0. 90
	HEMBA1000460	F-HEMBA1000460	0. 31
20	HEMBA1000488	F-HEMBA1000488	0. 47
	HEMBA1000490	F-HEMBA1000490	0. 89
	HEMBA1000491	F-HEMBA1000491	0. 94
	HEMBA1000501	F-HEMBA1000501	0. 67
	HEMBA1000505	F-HEMBA1000505	0. 65
25	HEMBA1000508	F-HEMBA1000508	0. 39
	HEMBA1000520	F-HEMBA1000520	0. 94
	HEMBA1000523	F-HEMBA1000523	0. 86
	HEMBA1000531	F-HEMBA1000531	0. 49
	HEMBA1000534	F-HEMBA1000534	0. 52
30	HEMBA1000542	F-HEMBA1000542	0. 81
	HEMBA1000555	F-HEMBA1000555	0. 67
	HEMBA1000561	F-HEMBA1000561	0. 34
	HEMBA1000568	F-HEMBA1000568	0. 66
	HEMBA1000588	F-HEMBA1000588	0. 79
35	HEMBA1000591	F-HEMBA1000591	0. 92
	HEMBA1000592	F-HEMBA1000592	0. 73
	HEMBA1000594	F-HEMBA1000594	0. 89
	HEMBA1000608	F-HEMBA1000608	0. 94
	HEMBA1000636	F-HEMBA1000636	0. 94
40	HEMBA1000637	F-HEMBA1000637	0. 92
	HEMBA1000657	F-HEMBA1000657	0. 85
	HEMBA1000682	F-HEMBA1000682	0. 94
	HEMBA1000686	F-HEMBA1000686	0. 90
	HEMBA1000719	F-HEMBA1000719	0. 94
45	HEMBA1000727	F-HEMBA1000727	0. 40
	HEMBA1000752	F-HEMBA1000752	0. 31

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	HEMBA1001398	F-HEMBA1001398	0. 74
	HEMBA1001405	F-HEMBA1001405	0. 61
	HEMBA1001407	F-HEMBA1001407	0. 43
	HEMBA1001413	F-HEMBA1001413	0. 40
5	HEMBA1001415	F-HEMBA1001415	0. 94
	HEMBA1001446	F-HEMBA1001446	0. 90
	HEMBA1001450	F-HEMBA1001450	0. 40
	HEMBA1001455	F-HEMBA1001455	0. 73
	HEMBA1001476	F-HEMBA1001476	0. 65
10	HEMBA1001497	F-HEMBA1001497	0. 48
	HEMBA1001510	F-HEMBA1001510	0. 36
	HEMBA1001526	F-HEMBA1001526	0. 66
	HEMBA1001533	F-HEMBA1001533	0. 46
	HEMBA1001569	F-HEMBA1001569	0. 73
15	HEMBA1001570	F-HEMBA1001570	0. 53
	HEMBA1001579	F-HEMBA1001579	0. 82
	HEMBA1001581	F-HEMBA1001581	0. 80
	HEMBA1001595	F-HEMBA1001595	0. 72
	HEMBA1001620	F-HEMBA1001620	0. 94
20	HEMBA1001635	F-HEMBA1001635	0. 87
	HEMBA1001640	F-HEMBA1001640	0. 82
	HEMBA1001647	F-HEMBA1001647	0. 91
	HEMBA1001655	F-HEMBA1001655	0. 39
	HEMBA1001661	F-HEMBA1001661	0. 86
25	HEMBA1001672	F-HEMBA1001672	0. 94
	HEMBA1001702	F-HEMBA1001702	0. 72
	HEMBA1001711	F-HEMBA1001711	0. 74
	HEMBA1001714	F-HEMBA1001714	0. 89
	HEMBA1001723	F-HEMBA1001723	0. 94
30	HEMBA1001731	F-HEMBA1001731	0. 37
	HEMBA1001744	F-HEMBA1001744	0. 31
	HEMBA1001746	F-HEMBA1001746	0. 39
	HEMBA1001781	F-HEMBA1001781	0. 67
	HEMBA1001800	F-HEMBA1001800	0. 69
35	HEMBA1001804	F-HEMBA1001804	0. 85
	HEMBA1001809	F-HEMBA1001809	0. 78
	HEMBA1001815	F-HEMBA1001815	0. 49
	HEMBA1001819	F-HEMBA1001819	0. 90
	HEMBA1001822	F-HEMBA1001822	0. 80
40	HEMBA1001824	F-HEMBA1001824	0. 68
	HEMBA1001847	F-HEMBA1001847	0. 46
	HEMBA1001864	F-HEMBA1001864	0. 34
	HEMBA1001866	F-HEMBA1001866	0. 53
	HEMBA1001869	F-HEMBA1001869	0. 69
45	HEMBA1001896	F-HEMBA1001896	0. 48
	HEMBA1001910	F-HEMBA1001910	0. 84

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	HEMBA1001912	F-HEMBA1001912	0. 48
	HEMBA1001913	F-HEMBA1001913	0. 94
	HEMBA1001915	F-HEMBA1001915	0. 41
	HEMBA1001921	F-HEMBA1001921	0. 94
5	HEMBA1001939	F-HEMBA1001939	0. 87
	HEMBA1001950	F-HEMBA1001950	0. 36
	HEMBA1001967	F-HEMBA1001967	0. 94
	HEMBA1001987	F-HEMBA1001987	0. 41
	HEMBA1002018	F-HEMBA1002018	0. 41
10	HEMBA1002035	F-HEMBA1002035	0. 36
	HEMBA1002049	F-HEMBA1002049	0. 39
	HEMBA1002084	F-HEMBA1002084	0. 45
	HEMBA1002092	F-HEMBA1002092	0. 94
	HEMBA1002102	F-HEMBA1002102	0. 94
15	HEMBA1002119	F-HEMBA1002119	0. 60
	HEMBA1002125	F-HEMBA1002125	0. 88
	HEMBA1002150	F-HEMBA1002150	0. 31
	HEMBA1002151	F-HEMBA1002151	0. 82
	HEMBA1002161	F-HEMBA1002161	0. 94
20	HEMBA1002177	F-HEMBA1002177	0. 38
	HEMBA1002189	F-HEMBA1002189	0. 43
	HEMBA1002191	F-HEMBA1002191	0. 94
	HEMBA1002199	F-HEMBA1002199	0. 85
	HEMBA1002212	F-HEMBA1002212	0. 39
25	HEMBA1002215	F-HEMBA1002215	0. 94
	HEMBA1002229	F-HEMBA1002229	0. 83
	HEMBA1002237	F-HEMBA1002237	0. 86
	HEMBA1002241	F-HEMBA1002241	0. 66
	HEMBA1002265	F-HEMBA1002265	0. 38
30	HEMBA1002267	F-HEMBA1002267	0. 33
	HEMBA1002341	F-HEMBA1002341	0. 53
	HEMBA1002363	F-HEMBA1002363	0. 88
	HEMBA1002417	F-HEMBA1002417	0. 83
	HEMBA1002419	F-HEMBA1002419	0. 92
35	HEMBA1002430	F-HEMBA1002430	0. 45
	HEMBA1002439	F-HEMBA1002439	0. 83
	HEMBA1002458	F-HEMBA1002458	0. 47
	HEMBA1002460	F-HEMBA1002460	0. 48
	HEMBA1002462	F-HEMBA1002462	0. 55
40	HEMBA1002469	F-HEMBA1002469	0. 79
	HEMBA1002475	F-HEMBA1002475	0. 88
	HEMBA1002477	F-HEMBA1002477	0. 45
	HEMBA1002495	F-HEMBA1002495	0. 78
	HEMBA1002503	F-HEMBA1002503	0. 94
45	HEMBA1002508	F-HEMBA1002508	0. 33
	HEMBA1002513	F-HEMBA1002513	0. 41

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	HEMBA1002515	F-HEMBA1002515	0.94
	HEMBA1002542	F-HEMBA1002542	0.46
	HEMBA1002547	F-HEMBA1002547	0.45
	HEMBA1002569	F-HEMBA1002569	0.86
5	HEMBA1002583	F-HEMBA1002583	0.86
	HEMBA1002609	F-HEMBA1002609	0.75
	HEMBA1002624	F-HEMBA1002624	0.59
	HEMBA1002688	F-HEMBA1002688	0.88
	HEMBA1002696	F-HEMBA1002696	0.82
10	HEMBA1002703	F-HEMBA1002703	0.94
	HEMBA1002746	F-HEMBA1002746	0.33
	HEMBA1002750	F-HEMBA1002750	0.53
	HEMBA1002768	F-HEMBA1002768	0.94
	HEMBA1002770	F-HEMBA1002770	0.61
15	HEMBA1002777	F-HEMBA1002777	0.90
	HEMBA1002779	F-HEMBA1002779	0.92
	HEMBA1002794	F-HEMBA1002794	0.86
	HEMBA1002810	F-HEMBA1002810	0.87
	HEMBA1002816	F-HEMBA1002816	0.91
20	HEMBA1002818	F-HEMBA1002818	0.94
	HEMBA1002850	F-HEMBA1002850	0.57
	HEMBA1002863	F-HEMBA1002863	0.48
	HEMBA1002876	F-HEMBA1002876	0.86
	HEMBA1002935	F-HEMBA1002935	0.91
25	HEMBA1002937	F-HEMBA1002937	0.61
	HEMBA1002939	F-HEMBA1002939	0.32
	HEMBA1002951	F-HEMBA1002951	0.83
	HEMBA1002954	F-HEMBA1002954	0.67
	HEMBA1002970	F-HEMBA1002970	0.33
30	HEMBA1002971	F-HEMBA1002971	0.57
	HEMBA1002973	F-HEMBA1002973	0.33
	HEMBA1002997	F-HEMBA1002997	0.46
	HEMBA1002999	F-HEMBA1002999	0.49
	HEMBA1003021	F-HEMBA1003021	0.74
35	HEMBA1003033	F-HEMBA1003033	0.94
	HEMBA1003035	F-HEMBA1003035	0.61
	HEMBA1003041	F-HEMBA1003041	0.40
	HEMBA1003046	F-HEMBA1003046	0.94
	HEMBA1003067	F-HEMBA1003067	0.34
40	HEMBA1003077	F-HEMBA1003077	0.83
	HEMBA1003078	F-HEMBA1003078	0.89
	HEMBA1003079	F-HEMBA1003079	0.49
	HEMBA1003096	F-HEMBA1003096	0.34
	HEMBA1003117	F-HEMBA1003117	0.94
45	HEMBA1003129	F-HEMBA1003129	0.81
	HEMBA1003136	F-HEMBA1003136	0.77

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	HEMBA1004227	F-HEMBA1004227	0. 94
	HEMBA1004238	F-HEMBA1004238	0. 44
	HEMBA1004246	F-HEMBA1004246	0. 71
	HEMBA1004248	F-HEMBA1004248	0. 40
5	HEMBA1004264	F-HEMBA1004264	0. 94
	HEMBA1004274	F-HEMBA1004274	0. 88
	HEMBA1004275	F-HEMBA1004275	0. 85
	HEMBA1004276	F-HEMBA1004276	0. 32
	HEMBA1004286	F-HEMBA1004286	0. 37
10	HEMBA1004289	F-HEMBA1004289	0. 76
	HEMBA1004321	F-HEMBA1004321	0. 82
	HEMBA1004327	F-HEMBA1004327	0. 40
	HEMBA1004330	F-HEMBA1004330	0. 84
	HEMBA1004335	F-HEMBA1004335	0. 79
15	HEMBA1004341	F-HEMBA1004341	0. 38
	HEMBA1004353	F-HEMBA1004353	0. 79
	HEMBA1004372	F-HEMBA1004372	0. 94
	HEMBA1004389	F-HEMBA1004389	0. 32
	HEMBA1004408	F-HEMBA1004408	0. 70
20	HEMBA1004479	F-HEMBA1004479	0. 55
	HEMBA1004499	F-HEMBA1004499	0. 62
	HEMBA1004502	F-HEMBA1004502	0. 31
	HEMBA1004507	F-HEMBA1004507	0. 71
	HEMBA1004509	F-HEMBA1004509	0. 68
25	HEMBA1004534	F-HEMBA1004534	0. 56
	HEMBA1004542	F-HEMBA1004542	0. 36
	HEMBA1004554	F-HEMBA1004554	0. 90
	HEMBA1004560	F-HEMBA1004560	0. 57
	HEMBA1004573	F-HEMBA1004573	0. 93
30	HEMBA1004596	F-HEMBA1004596	0. 45
	HEMBA1004604	F-HEMBA1004604	0. 91
	HEMBA1004610	F-HEMBA1004610	0. 59
	HEMBA1004632	F-HEMBA1004632	0. 59
	HEMBA1004637	F-HEMBA1004637	0. 38
35	HEMBA1004638	F-HEMBA1004638	0. 40
	HEMBA1004669	F-HEMBA1004669	0. 94
	HEMBA1004693	F-HEMBA1004693	0. 52
	HEMBA1004697	F-HEMBA1004697	0. 94
	HEMBA1004705	F-HEMBA1004705	0. 94
40	HEMBA1004709	F-HEMBA1004709	0. 77
	HEMBA1004711	F-HEMBA1004711	0. 73
	HEMBA1004725	F-HEMBA1004725	0. 94
	HEMBA1004734	F-HEMBA1004734	0. 94
	HEMBA1004736	F-HEMBA1004736	0. 94
45	HEMBA1004751	F-HEMBA1004751	0. 64
	HEMBA1004752	F-HEMBA1004752	0. 87

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	HEMBA1004753	F-HEMBA1004753	0. 54
	HEMBA1004756	F-HEMBA1004756	0. 54
	HEMBA1004758	F-HEMBA1004758	0. 69
	HEMBA1004763	F-HEMBA1004763	0. 94
5	HEMBA1004768	F-HEMBA1004768	0. 66
	HEMBA1004771	F-HEMBA1004771	0. 72
	HEMBA1004776	F-HEMBA1004776	0. 49
	HEMBA1004795	F-HEMBA1004795	0. 46
	HEMBA1004806	F-HEMBA1004806	0. 32
10	HEMBA1004847	F-HEMBA1004847	0. 79
	HEMBA1004850	F-HEMBA1004850	0. 94
	HEMBA1004863	F-HEMBA1004863	0. 32
	HEMBA1004864	F-HEMBA1004864	0. 94
	HEMBA1004889	F-HEMBA1004889	0. 94
15	HEMBA1004923	F-HEMBA1004923	0. 70
	HEMBA1004929	F-HEMBA1004929	0. 31
	HEMBA1004930	F-HEMBA1004930	0. 90
	HEMBA1004933	F-HEMBA1004933	0. 84
	HEMBA1004934	F-HEMBA1004934	0. 34
20	HEMBA1004944	F-HEMBA1004944	0. 40
	HEMBA1004954	F-HEMBA1004954	0. 62
	HEMBA1004972	F-HEMBA1004972	0. 90
	HEMBA1004973	F-HEMBA1004973	0. 94
	HEMBA1004977	F-HEMBA1004977	0. 77
25	HEMBA1004980	F-HEMBA1004980	0. 33
	HEMBA1005009	F-HEMBA1005009	0. 94
	HEMBA1005019	F-HEMBA1005019	0. 32
	HEMBA1005029	F-HEMBA1005029	0. 84
	HEMBA1005035	F-HEMBA1005035	0. 91
30	HEMBA1005047	F-HEMBA1005047	0. 94
	HEMBA1005050	F-HEMBA1005050	0. 88
	HEMBA1005066	F-HEMBA1005066	0. 79
	HEMBA1005075	F-HEMBA1005075	0. 31
	HEMBA1005079	F-HEMBA1005079	0. 35
35	HEMBA1005083	F-HEMBA1005083	0. 43
	HEMBA1005101	F-HEMBA1005101	0. 94
	HEMBA1005113	F-HEMBA1005113	0. 38
	HEMBA1005133	F-HEMBA1005133	0. 34
	HEMBA1005149	F-HEMBA1005149	0. 36
40	HEMBA1005185	F-HEMBA1005185	0. 64
	HEMBA1005201	F-HEMBA1005201	0. 83
	HEMBA1005202	F-HEMBA1005202	0. 94
	HEMBA1005206	F-HEMBA1005206	0. 94
	HEMBA1005219	F-HEMBA1005219	0. 57
45	HEMBA1005223	F-HEMBA1005223	0. 33
	HEMBA1005244	F-HEMBA1005244	0. 35

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	HEMBA1005252	F-HEMBA1005252	0. 80
	HEMBA1005296	F-HEMBA1005296	0. 94
	HEMBA1005314	F-HEMBA1005314	0. 94
	HEMBA1005331	F-HEMBA1005331	0. 69
5	HEMBA1005338	F-HEMBA1005338	0. 94
	HEMBA1005367	F-HEMBA1005367	0. 50
	HEMBA1005382	F-HEMBA1005382	0. 91
	HEMBA1005394	F-HEMBA1005394	0. 45
	HEMBA1005403	F-HEMBA1005403	0. 94
10	HEMBA1005411	F-HEMBA1005411	0. 33
	HEMBA1005423	F-HEMBA1005423	0. 64
	HEMBA1005468	F-HEMBA1005468	0. 33
	HEMBA1005469	F-HEMBA1005469	0. 59
	HEMBA1005472	F-HEMBA1005472	0. 32
15	HEMBA1005474	F-HEMBA1005474	0. 51
	HEMBA1005475	F-HEMBA1005475	0. 36
	HEMBA1005513	F-HEMBA1005513	0. 94
	HEMBA1005517	F-HEMBA1005517	0. 94
	HEMBA1005518	F-HEMBA1005518	0. 39
20	HEMBA1005526	F-HEMBA1005526	0. 62
	HEMBA1005528	F-HEMBA1005528	0. 81
	HEMBA1005530	F-HEMBA1005530	0. 62
	HEMBA1005548	F-HEMBA1005548	0. 94
	HEMBA1005558	F-HEMBA1005558	0. 94
25	HEMBA1005576	F-HEMBA1005576	0. 49
	HEMBA1005581	F-HEMBA1005581	0. 53
	HEMBA1005582	F-HEMBA1005582	0. 34
	HEMBA1005583	F-HEMBA1005583	0. 94
	HEMBA1005595	F-HEMBA1005595	0. 93
30	HEMBA1005609	F-HEMBA1005609	0. 34
	HEMBA1005621	F-HEMBA1005621	0. 94
	HEMBA1005666	F-HEMBA1005666	0. 57
	HEMBA1005680	F-HEMBA1005680	0. 38
	HEMBA1005685	F-HEMBA1005685	0. 32
35	HEMBA1005732	F-HEMBA1005732	0. 33
	HEMBA1005737	F-HEMBA1005737	0. 92
	HEMBA1005746	F-HEMBA1005746	0. 37
	HEMBA1005755	F-HEMBA1005755	0. 94
	HEMBA1005813	F-HEMBA1005813	0. 33
40	HEMBA1005815	F-HEMBA1005815	0. 82
	HEMBA1005822	F-HEMBA1005822	0. 83
	HEMBA1005834	F-HEMBA1005834	0. 70
	HEMBA1005852	F-HEMBA1005852	0. 76
	HEMBA1005884	F-HEMBA1005884	0. 79
45	HEMBA1005891	F-HEMBA1005891	0. 94
	HEMBA1005963	F-HEMBA1005963	0. 40

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	HEMBA1005990	F-HEMBA1005990	0. 82
	HEMBA1005991	F-HEMBA1005991	0. 43
	HEMBA1006031	F-HEMBA1006031	0. 55
	HEMBA1006035	F-HEMBA1006035	0. 43
5	HEMBA1006081	F-HEMBA1006081	0. 36
	HEMBA1006091	F-HEMBA1006091	0. 81
	HEMBA1006100	F-HEMBA1006100	0. 31
	HEMBA1006108	F-HEMBA1006108	0. 80
	HEMBA1006121	F-HEMBA1006121	0. 45
10	HEMBA1006130	F-HEMBA1006130	0. 46
	HEMBA1006138	F-HEMBA1006138	0. 48
	HEMBA1006155	F-HEMBA1006155	0. 72
	HEMBA1006173	F-HEMBA1006173	0. 42
	HEMBA1006182	F-HEMBA1006182	0. 73
15	HEMBA1006198	F-HEMBA1006198	0. 94
	HEMBA1006235	F-HEMBA1006235	0. 58
	HEMBA1006248	F-HEMBA1006248	0. 57
	HEMBA1006252	F-HEMBA1006252	0. 31
	HEMBA1006272	F-HEMBA1006272	0. 54
20	HEMBA1006278	F-HEMBA1006278	0. 92
	HEMBA1006283	F-HEMBA1006283	0. 90
	HEMBA1006284	F-HEMBA1006284	0. 93
	HEMBA1006291	F-HEMBA1006291	0. 38
	HEMBA1006293	F-HEMBA1006293	0. 89
25	HEMBA1006309	F-HEMBA1006309	0. 94
	HEMBA1006310	F-HEMBA1006310	0. 67
	HEMBA1006344	F-HEMBA1006344	0. 94
	HEMBA1006347	F-HEMBA1006347	0. 94
	HEMBA1006349	F-HEMBA1006349	0. 56
30	HEMBA1006377	F-HEMBA1006377	0. 94
	HEMBA1006381	F-HEMBA1006381	0. 33
	HEMBA1006398	F-HEMBA1006398	0. 71
	HEMBA1006424	F-HEMBA1006424	0. 40
	HEMBA1006445	F-HEMBA1006445	0. 86
35	HEMBA1006467	F-HEMBA1006467	0. 55
	HEMBA1006474	F-HEMBA1006474	0. 66
	HEMBA1006483	F-HEMBA1006483	0. 71
	HEMBA1006485	F-HEMBA1006485	0. 87
	HEMBA1006492	F-HEMBA1006492	0. 73
40	HEMBA1006494	F-HEMBA1006494	0. 90
	HEMBA1006497	F-HEMBA1006497	0. 77
	HEMBA1006502	F-HEMBA1006502	0. 80
	HEMBA1006507	F-HEMBA1006507	0. 56
	HEMBA1006521	F-HEMBA1006521	0. 91
45	HEMBA1006530	F-HEMBA1006530	0. 37
	HEMBA1006535	F-HEMBA1006535	0. 56

	HEMBA1006559	F-HEMBA1006559	0.39
	HEMBA1006566	F-HEMBA1006566	0.41
	HEMBA1006579	F-HEMBA1006579	0.83
	HEMBA1006583	F-HEMBA1006583	0.31
5	HEMBA1006612	F-HEMBA1006612	0.55
	HEMBA1006624	F-HEMBA1006624	0.94
	HEMBA1006631	F-HEMBA1006631	0.74
	HEMBA1006643	F-HEMBA1006643	0.38
	HEMBA1006652	F-HEMBA1006652	0.93
10	HEMBA1006659	F-HEMBA1006659	0.63
	HEMBA1006674	F-HEMBA1006674	0.54
	HEMBA1006682	F-HEMBA1006682	0.34
	HEMBA1006708	F-HEMBA1006708	0.40
	HEMBA1006709	F-HEMBA1006709	0.41
15	HEMBA1006717	F-HEMBA1006717	0.43
	HEMBA1006737	F-HEMBA1006737	0.72
	HEMBA1006754	F-HEMBA1006754	0.45
	HEMBA1006758	F-HEMBA1006758	0.60
	HEMBA1006767	F-HEMBA1006767	0.61
20	HEMBA1006789	F-HEMBA1006789	0.34
	HEMBA1006795	F-HEMBA1006795	0.48
	HEMBA1006796	F-HEMBA1006796	0.41
	HEMBA1006807	F-HEMBA1006807	0.34
	HEMBA1006832	F-HEMBA1006832	0.59
25	HEMBA1006877	F-HEMBA1006877	0.90
	HEMBA1006885	F-HEMBA1006885	0.80
	HEMBA1006900	F-HEMBA1006900	0.34
	HEMBA1006914	F-HEMBA1006914	0.78
	HEMBA1006926	F-HEMBA1006926	0.67
30	HEMBA1006936	F-HEMBA1006936	0.65
	HEMBA1006941	F-HEMBA1006941	0.94
	HEMBA1006973	F-HEMBA1006973	0.64
	HEMBA1006976	F-HEMBA1006976	0.40
	HEMBA1006993	F-HEMBA1006993	0.81
35	HEMBA1006996	F-HEMBA1006996	0.77
	HEMBA1007002	F-HEMBA1007002	0.72
	HEMBA1007018	F-HEMBA1007018	0.31
	HEMBA1007052	F-HEMBA1007052	0.41
	HEMBA1007062	F-HEMBA1007062	0.39
40	HEMBA1007066	F-HEMBA1007066	0.35
	HEMBA1007080	F-HEMBA1007080	0.43
	HEMBA1007085	F-HEMBA1007085	0.73
	HEMBA1007087	F-HEMBA1007087	0.94
	HEMBA1007112	F-HEMBA1007112	0.49
45	HEMBA1007121	F-HEMBA1007121	0.70
	HEMBA1007149	F-HEMBA1007149	0.94

	HEMBA1007151	F-HEMBA1007151	0.80
	HEMBA1007174	F-HEMBA1007174	0.63
	HEMBA1007178	F-HEMBA1007178	0.47
	HEMBA1007194	F-HEMBA1007194	0.94
5	HEMBA1007203	F-HEMBA1007203	0.48
	HEMBA1007224	F-HEMBA1007224	0.74
	HEMBA1007243	F-HEMBA1007243	0.94
	HEMBA1007251	F-HEMBA1007251	0.79
	HEMBA1007267	F-HEMBA1007267	0.86
10	HEMBA1007281	F-HEMBA1007281	0.61
	HEMBA1007300	F-HEMBA1007300	0.87
	HEMBA1007301	F-HEMBA1007301	0.38
	HEMBA1007319	F-HEMBA1007319	0.47
	HEMBA1007320	F-HEMBA1007320	0.69
15	HEMBA1007342	F-HEMBA1007342	0.80
	HEMBB1000008	F-HEMBB1000008	0.39
	HEMBB1000018	F-HEMBB1000018	0.79
	HEMBB1000024	F-HEMBB1000024	0.62
	HEMBB1000025	F-HEMBB1000025	0.66
20	HEMBB1000030	F-HEMBB1000030	0.33
	HEMBB1000036	F-HEMBB1000036	0.75
	HEMBB1000037	F-HEMBB1000037	0.94
	HEMBB1000048	F-HEMBB1000048	0.87
	HEMBB1000083	F-HEMBB1000083	0.48
25	HEMBB1000103	F-HEMBB1000103	0.63
	HEMBB1000119	F-HEMBB1000119	0.94
	HEMBB1000136	F-HEMBB1000136	0.92
	HEMBB1000173	F-HEMBB1000173	0.46
	HEMBB1000175	F-HEMBB1000175	0.48
30	HEMBB1000198	F-HEMBB1000198	0.74
	HEMBB1000215	F-HEMBB1000215	0.61
	HEMBB1000217	F-HEMBB1000217	0.94
	HEMBB1000226	F-HEMBB1000226	0.94
	HEMBB1000240	F-HEMBB1000240	0.40
35	HEMBB1000244	F-HEMBB1000244	0.81
	HEMBB1000266	F-HEMBB1000266	0.92
	HEMBB1000338	F-HEMBB1000338	0.33
	HEMBB1000339	F-HEMBB1000339	0.40
	HEMBB1000391	F-HEMBB1000391	0.43
40	HEMBB1000438	F-HEMBB1000438	0.79
	HEMBB1000449	F-HEMBB1000449	0.48
	HEMBB1000510	F-HEMBB1000510	0.35
	HEMBB1000550	F-HEMBB1000550	0.94
	HEMBB1000556	F-HEMBB1000556	0.89
45	HEMBB1000589	F-HEMBB1000589	0.77
	HEMBB1000591	F-HEMBB1000591	0.33

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	HEMBB1000592	F-HEMBB1000592	0.77
	HEMBB1000593	F-HEMBB1000593	0.68
	HEMBB1000623	F-HEMBB1000623	0.94
	HEMBB1000630	F-HEMBB1000630	0.59
5	HEMBB1000631	F-HEMBB1000631	0.71
	HEMBB1000632	F-HEMBB1000632	0.38
	HEMBB1000671	F-HEMBB1000671	0.36
	HEMBB1000673	F-HEMBB1000673	0.54
	HEMBB1000693	F-HEMBB1000693	0.68
10	HEMBB1000705	F-HEMBB1000705	0.44
	HEMBB1000706	F-HEMBB1000706	0.45
	HEMBB1000725	F-HEMBB1000725	0.91
	HEMBB1000763	F-HEMBB1000763	0.87
	HEMBB1000774	F-HEMBB1000774	0.80
15	HEMBB1000781	F-HEMBB1000781	0.94
	HEMBB1000789	F-HEMBB1000789	0.34
	HEMBB1000807	F-HEMBB1000807	0.94
	HEMBB1000810	F-HEMBB1000810	0.33
	HEMBB1000826	F-HEMBB1000826	0.36
20	HEMBB1000835	F-HEMBB1000835	0.81
	HEMBB1000848	F-HEMBB1000848	0.66
	HEMBB1000852	F-HEMBB1000852	0.85
	HEMBB1000870	F-HEMBB1000870	0.34
	HEMBB1000887	F-HEMBB1000887	0.58
25	HEMBB1000908	F-HEMBB1000908	0.31
	HEMBB1000927	F-HEMBB1000927	0.94
	HEMBB1000947	F-HEMBB1000947	0.33
	HEMBB1000973	F-HEMBB1000973	0.72
	HEMBB1000975	F-HEMBB1000975	0.68
30	HEMBB1000985	F-HEMBB1000985	0.62
	HEMBB1000991	F-HEMBB1000991	0.45
	HEMBB1001011	F-HEMBB1001011	0.58
	HEMBB1001014	F-HEMBB1001014	0.86
	HEMBB1001020	F-HEMBB1001020	0.87
35	HEMBB1001024	F-HEMBB1001024	0.64
	HEMBB1001056	F-HEMBB1001056	0.94
	HEMBB1001058	F-HEMBB1001058	0.39
	HEMBB1001068	F-HEMBB1001068	0.57
	HEMBB1001096	F-HEMBB1001096	0.48
40	HEMBB1001105	F-HEMBB1001105	0.45
	HEMBB1001112	F-HEMBB1001112	0.47
	HEMBB1001117	F-HEMBB1001117	0.83
	HEMBB1001126	F-HEMBB1001126	0.76
	HEMBB1001137	F-HEMBB1001137	0.53
45	HEMBB1001151	F-HEMBB1001151	0.94
	HEMBB1001153	F-HEMBB1001153	0.77

	HEMBB1001169	F-HEMBB1001169	0.39
	HEMBB1001175	F-HEMBB1001175	0.91
	HEMBB1001182	F-HEMBB1001182	0.94
	HEMBB1001199	F-HEMBB1001199	0.54
5	HEMBB1001210	F-HEMBB1001210	0.88
	HEMBB1001234	F-HEMBB1001234	0.67
	HEMBB1001242	F-HEMBB1001242	0.33
	HEMBB1001288	F-HEMBB1001288	0.33
	HEMBB1001289	F-HEMBB1001289	0.58
10	HEMBB1001294	F-HEMBB1001294	0.86
	HEMBB1001314	F-HEMBB1001314	0.76
	HEMBB1001331	F-HEMBB1001331	0.44
	HEMBB1001339	F-HEMBB1001339	0.40
	HEMBB1001346	F-HEMBB1001346	0.83
15	HEMBB1001364	F-HEMBB1001364	0.69
	HEMBB1001369	F-HEMBB1001369	0.47
	HEMBB1001384	F-HEMBB1001384	0.80
	HEMBB1001387	F-HEMBB1001387	0.36
	HEMBB1001394	F-HEMBB1001394	0.94
20	HEMBB1001410	F-HEMBB1001410	0.51
	HEMBB1001426	F-HEMBB1001426	0.80
	HEMBB1001429	F-HEMBB1001429	0.91
	HEMBB1001449	F-HEMBB1001449	0.31
	HEMBB1001482	F-HEMBB1001482	0.44
25	HEMBB1001531	F-HEMBB1001531	0.58
	HEMBB1001562	F-HEMBB1001562	0.65
	HEMBB1001564	F-HEMBB1001564	0.46
	HEMBB1001585	F-HEMBB1001585	0.74
	HEMBB1001603	F-HEMBB1001603	0.81
30	HEMBB1001635	F-HEMBB1001635	0.46
	HEMBB1001653	F-HEMBB1001653	0.33
	HEMBB1001665	F-HEMBB1001665	0.39
	HEMBB1001668	F-HEMBB1001668	0.38
	HEMBB1001673	F-HEMBB1001673	0.83
35	HEMBB1001684	F-HEMBB1001684	0.44
	HEMBB1001685	F-HEMBB1001685	0.90
	HEMBB1001695	F-HEMBB1001695	0.92
	HEMBB1001707	F-HEMBB1001707	0.51
	HEMBB1001736	F-HEMBB1001736	0.94
40	HEMBB1001760	F-HEMBB1001760	0.88
	HEMBB1001785	F-HEMBB1001785	0.74
	HEMBB1001812	F-HEMBB1001812	0.33
	HEMBB1001816	F-HEMBB1001816	0.41
	HEMBB1001831	F-HEMBB1001831	0.93
45	HEMBB1001834	F-HEMBB1001834	0.78
	HEMBB1001839	F-HEMBB1001839	0.32

	HEMBB1001869	F-HEMBB1001869	0.48
	HEMBB1001872	F-HEMBB1001872	0.93
	HEMBB1001874	F-HEMBB1001874	0.31
	HEMBB1001905	F-HEMBB1001905	0.87
5	HEMBB1001906	F-HEMBB1001906	0.88
	HEMBB1001908	F-HEMBB1001908	0.69
	HEMBB1001910	F-HEMBB1001910	0.77
	HEMBB1001915	F-HEMBB1001915	0.76
	HEMBB1001945	F-HEMBB1001945	0.64
10	HEMBB1001947	F-HEMBB1001947	0.94
	HEMBB1001950	F-HEMBB1001950	0.73
	HEMBB1001957	F-HEMBB1001957	0.64
	HEMBB1001962	F-HEMBB1001962	0.90
	HEMBB1001990	F-HEMBB1001990	0.83
15	HEMBB1002044	F-HEMBB1002044	0.82
	HEMBB1002050	F-HEMBB1002050	0.91
	HEMBB1002068	F-HEMBB1002068	0.48
	HEMBB1002134	F-HEMBB1002134	0.80
	HEMBB1002142	F-HEMBB1002142	0.39
20	HEMBB1002152	F-HEMBB1002152	0.31
	HEMBB1002193	F-HEMBB1002193	0.35
	HEMBB1002217	F-HEMBB1002217	0.49
	HEMBB1002218	F-HEMBB1002218	0.32
	HEMBB1002249	F-HEMBB1002249	0.72
25	HEMBB1002300	F-HEMBB1002300	0.75
	HEMBB1002327	F-HEMBB1002327	0.86
	HEMBB1002329	F-HEMBB1002329	0.31
	HEMBB1002340	F-HEMBB1002340	0.42
	HEMBB1002342	F-HEMBB1002342	0.76
30	HEMBB1002358	F-HEMBB1002358	0.70
	HEMBB1002359	F-HEMBB1002359	0.75
	HEMBB1002383	F-HEMBB1002383	0.78
	HEMBB1002409	F-HEMBB1002409	0.52
	HEMBB1002415	F-HEMBB1002415	0.82
35	HEMBB1002442	F-HEMBB1002442	0.31
	HEMBB1002457	F-HEMBB1002457	0.46
	HEMBB1002489	F-HEMBB1002489	0.69
	HEMBB1002492	F-HEMBB1002492	0.68
	HEMBB1002495	F-HEMBB1002495	0.94
40	HEMBB1002502	F-HEMBB1002502	0.39
	HEMBB1002510	F-HEMBB1002510	0.94
	HEMBB1002545	F-HEMBB1002545	0.44
	HEMBB1002550	F-HEMBB1002550	0.57
	HEMBB1002600	F-HEMBB1002600	0.91
45	HEMBB1002607	F-HEMBB1002607	0.83
	HEMBB1002614	F-HEMBB1002614	0.75

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	HEMBB1002684	F-HEMBB1002684	0.84
	HEMBB1002692	F-HEMBB1002692	0.52
	HEMBB1002697	F-HEMBB1002697	0.86
	HEMBB1002705	F-HEMBB1002705	0.32
5	MAMMA1000019	F-MAMMA1000019	0.48
	MAMMA1000020	F-MAMMA1000020	0.36
	MAMMA1000025	F-MAMMA1000025	0.31
	MAMMA1000055	F-MAMMA1000055	0.39
	MAMMA1000057	F-MAMMA1000057	0.35
10	MAMMA1000069	F-MAMMA1000069	0.78
	MAMMA1000084	F-MAMMA1000084	0.61
	MAMMA1000085	F-MAMMA1000085	0.72
	MAMMA1000139	F-MAMMA1000139	0.33
	MAMMA1000143	F-MAMMA1000143	0.40
15	MAMMA1000163	F-MAMMA1000163	0.94
	MAMMA1000171	F-MAMMA1000171	0.78
	MAMMA1000173	F-MAMMA1000173	0.94
	MAMMA1000183	F-MAMMA1000183	0.77
	MAMMA1000251	F-MAMMA1000251	0.94
20	MAMMA1000257	F-MAMMA1000257	0.75
	MAMMA1000277	F-MAMMA1000277	0.94
	MAMMA1000278	F-MAMMA1000278	0.35
	MAMMA1000279	F-MAMMA1000279	0.62
	MAMMA1000284	F-MAMMA1000284	0.35
25	MAMMA1000309	F-MAMMA1000309	0.53
	MAMMA1000312	F-MAMMA1000312	0.68
	MAMMA1000313	F-MAMMA1000313	0.32
	MAMMA1000339	F-MAMMA1000339	0.35
	MAMMA1000361	F-MAMMA1000361	0.61
30	MAMMA1000372	F-MAMMA1000372	0.60
	MAMMA1000388	F-MAMMA1000388	0.93
	MAMMA1000395	F-MAMMA1000395	0.94
	MAMMA1000410	F-MAMMA1000410	0.94
	MAMMA1000416	F-MAMMA1000416	0.89
35	MAMMA1000421	F-MAMMA1000421	0.50
	MAMMA1000422	F-MAMMA1000422	0.92
	MAMMA1000429	F-MAMMA1000429	0.92
	MAMMA1000458	F-MAMMA1000458	0.88
	MAMMA1000468	F-MAMMA1000468	0.60
40	MAMMA1000472	F-MAMMA1000472	0.33
	MAMMA1000490	F-MAMMA1000490	0.34
	MAMMA1000524	F-MAMMA1000524	0.39
	MAMMA1000567	F-MAMMA1000567	0.40
	MAMMA1000583	F-MAMMA1000583	0.45
45	MAMMA1000612	F-MAMMA1000612	0.89
	MAMMA1000623	F-MAMMA1000623	0.44

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	MAMMA1000625	F-MAMMA1000625	0.52
	MAMMA1000664	F-MAMMA1000664	0.42
	MAMMA1000670	F-MAMMA1000670	0.94
	MAMMA1000672	F-MAMMA1000672	0.44
5	MAMMA1000684	F-MAMMA1000684	0.94
	MAMMA1000713	F-MAMMA1000713	0.88
	MAMMA1000731	F-MAMMA1000731	0.67
	MAMMA1000734	F-MAMMA1000734	0.40
	MAMMA1000738	F-MAMMA1000738	0.93
10	MAMMA1000746	F-MAMMA1000746	0.48
	MAMMA1000760	F-MAMMA1000760	0.94
	MAMMA1000776	F-MAMMA1000776	0.94
	MAMMA1000824	F-MAMMA1000824	0.81
	MAMMA1000831	F-MAMMA1000831	0.39
15	MAMMA1000841	F-MAMMA1000841	0.41
	MAMMA1000842	F-MAMMA1000842	0.61
	MAMMA1000843	F-MAMMA1000843	0.48
	MAMMA1000856	F-MAMMA1000856	0.31
	MAMMA1000859	F-MAMMA1000859	0.44
20	MAMMA1000865	F-MAMMA1000865	0.94
	MAMMA1000875	F-MAMMA1000875	0.49
	MAMMA1000897	F-MAMMA1000897	0.94
	MAMMA1000906	F-MAMMA1000906	0.45
	MAMMA1000908	F-MAMMA1000908	0.39
25	MAMMA1000914	F-MAMMA1000914	0.94
	MAMMA1000921	F-MAMMA1000921	0.34
	MAMMA1000956	F-MAMMA1000956	0.39
	MAMMA1000968	F-MAMMA1000968	0.35
	MAMMA1000979	F-MAMMA1000979	0.68
30	MAMMA1001008	F-MAMMA1001008	0.36
	MAMMA1001021	F-MAMMA1001021	0.48
	MAMMA1001041	F-MAMMA1001041	0.34
	MAMMA1001059	F-MAMMA1001059	0.94
	MAMMA1001073	F-MAMMA1001073	0.94
35	MAMMA1001075	F-MAMMA1001075	0.94
	MAMMA1001078	F-MAMMA1001078	0.52
	MAMMA1001080	F-MAMMA1001080	0.87
	MAMMA1001091	F-MAMMA1001091	0.53
	MAMMA1001105	F-MAMMA1001105	0.94
40	MAMMA1001110	F-MAMMA1001110	0.78
	MAMMA1001126	F-MAMMA1001126	0.85
	MAMMA1001139	F-MAMMA1001139	0.38
	MAMMA1001143	F-MAMMA1001143	0.79
	MAMMA1001154	F-MAMMA1001154	0.31
45	MAMMA1001181	F-MAMMA1001181	0.69
	MAMMA1001198	F-MAMMA1001198	0.88

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	MAMMA1001202	F-MAMMA1001202	0. 38
	MAMMA1001215	F-MAMMA1001215	0. 94
	MAMMA1001222	F-MAMMA1001222	0. 89
	MAMMA1001244	F-MAMMA1001244	0. 87
5	MAMMA1001259	F-MAMMA1001259	0. 91
	MAMMA1001260	F-MAMMA1001260	0. 75
	MAMMA1001271	F-MAMMA1001271	0. 77
	MAMMA1001292	F-MAMMA1001292	0. 94
	MAMMA1001296	F-MAMMA1001296	0. 75
10	MAMMA1001305	F-MAMMA1001305	0. 66
	MAMMA1001343	F-MAMMA1001343	0. 38
	MAMMA1001346	F-MAMMA1001346	0. 81
	MAMMA1001388	F-MAMMA1001388	0. 94
	MAMMA1001411	F-MAMMA1001411	0. 42
15	MAMMA1001419	F-MAMMA1001419	0. 45
	MAMMA1001465	F-MAMMA1001465	0. 94
	MAMMA1001476	F-MAMMA1001476	0. 90
	MAMMA1001487	F-MAMMA1001487	0. 78
	MAMMA1001510	F-MAMMA1001510	0. 82
20	MAMMA1001522	F-MAMMA1001522	0. 63
	MAMMA1001551	F-MAMMA1001551	0. 81
	MAMMA1001576	F-MAMMA1001576	0. 94
	MAMMA1001600	F-MAMMA1001600	0. 72
	MAMMA1001604	F-MAMMA1001604	0. 87
25	MAMMA1001620	F-MAMMA1001620	0. 43
	MAMMA1001627	F-MAMMA1001627	0. 39
	MAMMA1001630	F-MAMMA1001630	0. 46
	MAMMA1001633	F-MAMMA1001633	0. 58
	MAMMA1001635	F-MAMMA1001635	0. 89
30	MAMMA1001649	F-MAMMA1001649	0. 62
	MAMMA1001654	F-MAMMA1001654	0. 94
	MAMMA1001692	F-MAMMA1001692	0. 83
	MAMMA1001730	F-MAMMA1001730	0. 48
	MAMMA1001735	F-MAMMA1001735	0. 94
35	MAMMA1001743	F-MAMMA1001743	0. 94
	MAMMA1001744	F-MAMMA1001744	0. 33
	MAMMA1001751	F-MAMMA1001751	0. 94
	MAMMA1001754	F-MAMMA1001754	0. 47
	MAMMA1001757	F-MAMMA1001757	0. 38
40	MAMMA1001764	F-MAMMA1001764	0. 57
	MAMMA1001768	F-MAMMA1001768	0. 85
	MAMMA1001771	F-MAMMA1001771	0. 39
	MAMMA1001783	F-MAMMA1001783	0. 61
	MAMMA1001785	F-MAMMA1001785	0. 41
45	MAMMA1001790	F-MAMMA1001790	0. 69
	MAMMA1001812	F-MAMMA1001812	0. 32

5	MAMMA1001817	F-MAMMA1001817	0.55
	MAMMA1001824	F-MAMMA1001824	0.57
	MAMMA1001837	F-MAMMA1001837	0.35
	MAMMA1001848	F-MAMMA1001848	0.38
	MAMMA1001851	F-MAMMA1001851	0.46
	MAMMA1001858	F-MAMMA1001858	0.53
	MAMMA1001864	F-MAMMA1001864	0.32
	MAMMA1001868	F-MAMMA1001868	0.48
10	MAMMA1001874	F-MAMMA1001874	0.94
	MAMMA1001956	F-MAMMA1001956	0.47
	MAMMA1001969	F-MAMMA1001969	0.31
	MAMMA1001970	F-MAMMA1001970	0.34
	MAMMA1002009	F-MAMMA1002009	0.45
	MAMMA1002011	F-MAMMA1002011	0.94
	MAMMA1002033	F-MAMMA1002033	0.33
	MAMMA1002041	F-MAMMA1002041	0.86
15	MAMMA1002042	F-MAMMA1002042	0.88
	MAMMA1002047	F-MAMMA1002047	0.41
	MAMMA1002068	F-MAMMA1002068	0.38
	MAMMA1002143	F-MAMMA1002143	0.91
	MAMMA1002153	F-MAMMA1002153	0.94
	MAMMA1002156	F-MAMMA1002156	0.73
	MAMMA1002170	F-MAMMA1002170	0.43
	MAMMA1002174	F-MAMMA1002174	0.69
20	MAMMA1002198	F-MAMMA1002198	0.65
	MAMMA1002209	F-MAMMA1002209	0.80
	MAMMA1002219	F-MAMMA1002219	0.85
	MAMMA1002236	F-MAMMA1002236	0.55
	MAMMA1002243	F-MAMMA1002243	0.50
	MAMMA1002268	F-MAMMA1002268	0.43
	MAMMA1002269	F-MAMMA1002269	0.33
	MAMMA1002292	F-MAMMA1002292	0.76
25	MAMMA1002294	F-MAMMA1002294	0.94
	MAMMA1002297	F-MAMMA1002297	0.91
	MAMMA1002308	F-MAMMA1002308	0.68
	MAMMA1002312	F-MAMMA1002312	0.77
	MAMMA1002317	F-MAMMA1002317	0.46
	MAMMA1002319	F-MAMMA1002319	0.31
	MAMMA1002329	F-MAMMA1002329	0.34
	MAMMA1002333	F-MAMMA1002333	0.65
30	MAMMA1002351	F-MAMMA1002351	0.89
	MAMMA1002353	F-MAMMA1002353	0.94
	MAMMA1002355	F-MAMMA1002355	0.55
	MAMMA1002356	F-MAMMA1002356	0.32
	MAMMA1002362	F-MAMMA1002362	0.83
	MAMMA1002380	F-MAMMA1002380	0.94

	MAMMA1002384	F-MAMMA1002384	0.42
	MAMMA1002385	F-MAMMA1002385	0.82
	MAMMA1002413	F-MAMMA1002413	0.94
	MAMMA1002427	F-MAMMA1002427	0.40
5	MAMMA1002434	F-MAMMA1002434	0.74
	MAMMA1002454	F-MAMMA1002454	0.82
	MAMMA1002461	F-MAMMA1002461	0.49
	MAMMA1002470	F-MAMMA1002470	0.89
	MAMMA1002485	F-MAMMA1002485	0.55
10	MAMMA1002524	F-MAMMA1002524	0.33
	MAMMA1002530	F-MAMMA1002530	0.75
	MAMMA1002554	F-MAMMA1002554	0.41
	MAMMA1002585	F-MAMMA1002585	0.31
	MAMMA1002590	F-MAMMA1002590	0.72
15	MAMMA1002598	F-MAMMA1002598	0.76
	MAMMA1002617	F-MAMMA1002617	0.49
	MAMMA1002619	F-MAMMA1002619	0.88
	MAMMA1002637	F-MAMMA1002637	0.94
	MAMMA1002650	F-MAMMA1002650	0.54
20	MAMMA1002655	F-MAMMA1002655	0.39
	MAMMA1002665	F-MAMMA1002665	0.33
	MAMMA1002671	F-MAMMA1002671	0.94
	MAMMA1002673	F-MAMMA1002673	0.70
	MAMMA1002684	F-MAMMA1002684	0.94
25	MAMMA1002685	F-MAMMA1002685	0.88
	MAMMA1002699	F-MAMMA1002699	0.94
	MAMMA1002711	F-MAMMA1002711	0.39
	MAMMA1002769	F-MAMMA1002769	0.88
	MAMMA1002775	F-MAMMA1002775	0.81
30	MAMMA1002782	F-MAMMA1002782	0.87
	MAMMA1002796	F-MAMMA1002796	0.40
	MAMMA1002807	F-MAMMA1002807	0.64
	MAMMA1002842	F-MAMMA1002842	0.94
	MAMMA1002843	F-MAMMA1002843	0.32
35	MAMMA1002868	F-MAMMA1002868	0.54
	MAMMA1002869	F-MAMMA1002869	0.94
	MAMMA1002881	F-MAMMA1002881	0.94
	MAMMA1002886	F-MAMMA1002886	0.61
	MAMMA1002890	F-MAMMA1002890	0.94
40	MAMMA1002895	F-MAMMA1002895	0.94
	MAMMA1002937	F-MAMMA1002937	0.91
	MAMMA1002938	F-MAMMA1002938	0.78
	MAMMA1002947	F-MAMMA1002947	0.94
	MAMMA1002964	F-MAMMA1002964	0.34
45	MAMMA1002987	F-MAMMA1002987	0.74
	MAMMA1003011	F-MAMMA1003011	0.90

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	MAMMA1003013	F-MAMMA1003013	0.36
	MAMMA1003015	F-MAMMA1003015	0.92
	MAMMA1003035	F-MAMMA1003035	0.94
	MAMMA1003044	F-MAMMA1003044	0.61
5	MAMMA1003047	F-MAMMA1003047	0.94
	MAMMA1003049	F-MAMMA1003049	0.31
	MAMMA1003056	F-MAMMA1003056	0.75
	MAMMA1003057	F-MAMMA1003057	0.33
	MAMMA1003066	F-MAMMA1003066	0.38
10	MAMMA1003099	F-MAMMA1003099	0.79
	MAMMA1003104	F-MAMMA1003104	0.44
	MAMMA1003113	F-MAMMA1003113	0.90
	MAMMA1003127	F-MAMMA1003127	0.53
	MAMMA1003135	F-MAMMA1003135	0.94
15	MAMMA1003146	F-MAMMA1003146	0.88
	MAMMA1003150	F-MAMMA1003150	0.73
	MAMMA1003166	F-MAMMA1003166	0.94
	NT2RM1000001	F-NT2RM1000001	0.66
	NT2RM1000018	F-NT2RM1000018	0.55
20	NT2RM1000032	F-NT2RM1000032	0.74
	NT2RM1000035	F-NT2RM1000035	0.52
	NT2RM1000037	F-NT2RM1000037	0.94
	NT2RM1000039	F-NT2RM1000039	0.77
	NT2RM1000055	F-NT2RM1000055	0.89
25	NT2RM1000059	F-NT2RM1000059	0.41
	NT2RM1000062	F-NT2RM1000062	0.65
	NT2RM1000080	F-NT2RM1000080	0.61
	NT2RM1000086	F-NT2RM1000086	0.94
	NT2RM1000092	F-NT2RM1000092	0.94
30	NT2RM1000118	F-NT2RM1000118	0.76
	NT2RM1000119	F-NT2RM1000119	0.41
	NT2RM1000127	F-NT2RM1000127	0.94
	NT2RM1000131	F-NT2RM1000131	0.90
	NT2RM1000132	F-NT2RM1000132	0.94
35	NT2RM1000153	F-NT2RM1000153	0.90
	NT2RM1000186	F-NT2RM1000186	0.78
	NT2RM1000187	F-NT2RM1000187	0.54
	NT2RM1000199	F-NT2RM1000199	0.33
	NT2RM1000242	F-NT2RM1000242	0.78
40	NT2RM1000244	F-NT2RM1000244	0.31
	NT2RM1000252	F-NT2RM1000252	0.76
	NT2RM1000256	F-NT2RM1000256	0.94
	NT2RM1000257	F-NT2RM1000257	0.89
	NT2RM1000260	F-NT2RM1000260	0.42
45	NT2RM1000271	F-NT2RM1000271	0.74
	NT2RM1000272	F-NT2RM1000272	0.78

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	NT2RM1000280	F-NT2RM1000280	0.94
	NT2RM1000300	F-NT2RM1000300	0.47
	NT2RM1000314	F-NT2RM1000314	0.61
	NT2RM1000318	F-NT2RM1000318	0.94
5	NT2RM1000341	F-NT2RM1000341	0.70
	NT2RM1000354	F-NT2RM1000354	0.82
	NT2RM1000355	F-NT2RM1000355	0.94
	NT2RM1000365	F-NT2RM1000365	0.31
	NT2RM1000377	F-NT2RM1000377	0.87
10	NT2RM1000388	F-NT2RM1000388	0.94
	NT2RM1000394	F-NT2RM1000394	0.58
	NT2RM1000399	F-NT2RM1000399	0.86
	NT2RM1000421	F-NT2RM1000421	0.39
	NT2RM1000430	F-NT2RM1000430	0.94
15	NT2RM1000499	F-NT2RM1000499	0.44
	NT2RM1000539	F-NT2RM1000539	0.87
	NT2RM1000553	F-NT2RM1000553	0.88
	NT2RM1000555	F-NT2RM1000555	0.37
	NT2RM1000563	F-NT2RM1000563	0.63
20	NT2RM1000623	F-NT2RM1000623	0.34
	NT2RM1000648	F-NT2RM1000648	0.94
	NT2RM1000661	F-NT2RM1000661	0.61
	NT2RM1000666	F-NT2RM1000666	0.94
	NT2RM1000669	F-NT2RM1000669	0.94
25	NT2RM1000672	F-NT2RM1000672	0.53
	NT2RM1000691	F-NT2RM1000691	0.38
	NT2RM1000699	F-NT2RM1000699	0.32
	NT2RM1000702	F-NT2RM1000702	0.74
	NT2RM1000725	F-NT2RM1000725	0.75
30	NT2RM1000741	F-NT2RM1000741	0.94
	NT2RM1000742	F-NT2RM1000742	0.54
	NT2RM1000746	F-NT2RM1000746	0.94
	NT2RM1000770	F-NT2RM1000770	0.48
	NT2RM1000772	F-NT2RM1000772	0.39
35	NT2RM1000780	F-NT2RM1000780	0.66
	NT2RM1000781	F-NT2RM1000781	0.49
	NT2RM1000800	F-NT2RM1000800	0.72
	NT2RM1000802	F-NT2RM1000802	0.89
	NT2RM1000811	F-NT2RM1000811	0.53
40	NT2RM1000826	F-NT2RM1000826	0.39
	NT2RM1000829	F-NT2RM1000829	0.63
	NT2RM1000833	F-NT2RM1000833	0.94
	NT2RM1000850	F-NT2RM1000850	0.89
	NT2RM1000852	F-NT2RM1000852	0.88
45	NT2RM1000857	F-NT2RM1000857	0.58
	NT2RM1000867	F-NT2RM1000867	0.90

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	NT2RM1000874	F-NT2RM1000874	0.89
	NT2RM1000882	F-NT2RM1000882	0.63
	NT2RM1000883	F-NT2RM1000883	0.71
	NT2RM1000885	F-NT2RM1000885	0.89
5	NT2RM1000894	F-NT2RM1000894	0.57
	NT2RM1000898	F-NT2RM1000898	0.87
	NT2RM1000905	F-NT2RM1000905	0.94
	NT2RM1000924	F-NT2RM1000924	0.88
	NT2RM1000927	F-NT2RM1000927	0.70
10	NT2RM1000962	F-NT2RM1000962	0.84
	NT2RM1000978	F-NT2RM1000978	0.39
	NT2RM1001003	F-NT2RM1001003	0.81
	NT2RM1001008	F-NT2RM1001008	0.94
	NT2RM1001043	F-NT2RM1001043	0.94
15	NT2RM1001044	F-NT2RM1001044	0.94
	NT2RM1001059	F-NT2RM1001059	0.94
	NT2RM1001066	F-NT2RM1001066	0.94
	NT2RM1001072	F-NT2RM1001072	0.77
	NT2RM1001074	F-NT2RM1001074	0.94
20	NT2RM1001082	F-NT2RM1001082	0.94
	NT2RM1001085	F-NT2RM1001085	0.83
	NT2RM1001092	F-NT2RM1001092	0.77
	NT2RM1001102	F-NT2RM1001102	0.59
	NT2RM1001105	F-NT2RM1001105	0.94
25	NT2RM1001112	F-NT2RM1001112	0.50
	NT2RM1001115	F-NT2RM1001115	0.32
	NT2RM1001139	F-NT2RM1001139	0.77
	NT2RM2000006	F-NT2RM2000006	0.34
	NT2RM2000013	F-NT2RM2000013	0.70
30	NT2RM2000030	F-NT2RM2000030	0.89
	NT2RM2000032	F-NT2RM2000032	0.36
	NT2RM2000042	F-NT2RM2000042	0.32
	NT2RM2000092	F-NT2RM2000092	0.55
	NT2RM2000093	F-NT2RM2000093	0.33
35	NT2RM2000101	F-NT2RM2000101	0.77
	NT2RM2000124	F-NT2RM2000124	0.94
	NT2RM2000191	F-NT2RM2000191	0.80
	NT2RM2000192	F-NT2RM2000192	0.93
	NT2RM2000239	F-NT2RM2000239	0.68
40	NNNNNNNNNNNN	F-NNNNNNNNNNNN	0.94
	NT2RM2000250	F-NT2RM2000250	0.94
	NT2RM2000259	F-NT2RM2000259	0.68
	NT2RM2000260	F-NT2RM2000260	0.37
	NT2RM2000287	F-NT2RM2000287	0.46
45	NT2RM2000322	F-NT2RM2000322	0.83
	NT2RM2000359	F-NT2RM2000359	0.94

	NT2RM2000363	F-NT2RM2000363	0. 91
	NT2RM2000368	F-NT2RM2000368	0. 34
	NT2RM2000371	F-NT2RM2000371	0. 94
	NT2RM2000374	F-NT2RM2000374	0. 65
5	NT2RM2000395	F-NT2RM2000395	0. 33
	NT2RM2000402	F-NT2RM2000402	0. 80
	NT2RM2000407	F-NT2RM2000407	0. 88
	NT2RM2000420	F-NT2RM2000420	0. 92
	NT2RM2000422	F-NT2RM2000422	0. 49
10	NT2RM2000452	F-NT2RM2000452	0. 93
	NT2RM2000469	F-NT2RM2000469	0. 39
	NT2RM2000490	F-NT2RM2000490	0. 90
	NT2RM2000502	F-NT2RM2000502	0. 64
	NT2RM2000504	F-NT2RM2000504	0. 71
15	NT2RM2000522	F-NT2RM2000522	0. 91
	NT2RM2000540	F-NT2RM2000540	0. 87
	NT2RM2000556	F-NT2RM2000556	0. 91
	NT2RM2000566	F-NT2RM2000566	0. 39
	NT2RM2000567	F-NT2RM2000567	0. 44
20	NT2RM2000569	F-NT2RM2000569	0. 49
	NT2RM2000577	F-NT2RM2000577	0. 45
	NT2RM2000581	F-NT2RM2000581	0. 72
	NT2RM2000588	F-NT2RM2000588	0. 31
	NT2RM2000594	F-NT2RM2000594	0. 79
25	NT2RM2000599	F-NT2RM2000599	0. 80
	NT2RM2000612	F-NT2RM2000612	0. 75
	NT2RM2000623	F-NT2RM2000623	0. 72
	NT2RM2000624	F-NT2RM2000624	0. 94
	NT2RM2000635	F-NT2RM2000635	0. 73
30	NT2RM2000636	F-NT2RM2000636	0. 45
	NT2RM2000639	F-NT2RM2000639	0. 43
	NT2RM2000649	F-NT2RM2000649	0. 74
	NT2RM2000669	F-NT2RM2000669	0. 94
	NT2RM2000691	F-NT2RM2000691	0. 84
35	NT2RM2000714	F-NT2RM2000714	0. 92
	NT2RM2000718	F-NT2RM2000718	0. 52
	NT2RM2000735	F-NT2RM2000735	0. 33
	NT2RM2000740	F-NT2RM2000740	0. 94
	NT2RM2000795	F-NT2RM2000795	0. 44
40	NT2RM2000821	F-NT2RM2000821	0. 33
	NT2RM2000837	F-NT2RM2000837	0. 57
	NT2RM2000951	F-NT2RM2000951	0. 32
	NT2RM2000952	F-NT2RM2000952	0. 50
	NT2RM2000984	F-NT2RM2000984	0. 76
45	NT2RM2001004	F-NT2RM2001004	0. 55
	NT2RM2001035	F-NT2RM2001035	0. 82

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	NT2RM2001065	F-NT2RM2001065	0. 65
	NT2RM2001100	F-NT2RM2001100	0. 89
	NT2RM2001105	F-NT2RM2001105	0. 94
	NT2RM2001131	F-NT2RM2001131	0. 94
5	NT2RM2001141	F-NT2RM2001141	0. 74
	NT2RM2001152	F-NT2RM2001152	0. 33
	NT2RM2001177	F-NT2RM2001177	0. 32
	NT2RM2001194	F-NT2RM2001194	0. 83
	NT2RM2001196	F-NT2RM2001196	0. 42
10	NT2RM2001201	F-NT2RM2001201	0. 90
	NT2RM2001221	F-NT2RM2001221	0. 39
	NT2RM2001238	F-NT2RM2001238	0. 94
	NT2RM2001243	F-NT2RM2001243	0. 44
	NT2RM2001247	F-NT2RM2001247	0. 42
15	NT2RM2001256	F-NT2RM2001256	0. 60
	NT2RM2001291	F-NT2RM2001291	0. 39
	NT2RM2001306	F-NT2RM2001306	0. 81
	NT2RM2001312	F-NT2RM2001312	0. 64
	NT2RM2001319	F-NT2RM2001319	0. 53
20	NT2RM2001324	F-NT2RM2001324	0. 94
	NT2RM2001345	F-NT2RM2001345	0. 94
	NT2RM2001360	F-NT2RM2001360	0. 69
	NT2RM2001370	F-NT2RM2001370	0. 44
	NT2RM2001393	F-NT2RM2001393	0. 94
25	NT2RM2001420	F-NT2RM2001420	0. 46
	NT2RM2001424	F-NT2RM2001424	0. 94
	NT2RM2001499	F-NT2RM2001499	0. 63
	NT2RM2001504	F-NT2RM2001504	0. 94
	NT2RM2001524	F-NT2RM2001524	0. 76
30	NT2RM2001544	F-NT2RM2001544	0. 59
	NT2RM2001547	F-NT2RM2001547	0. 48
	NT2RM2001575	F-NT2RM2001575	0. 91
	NT2RM2001582	F-NT2RM2001582	0. 34
	NT2RM2001588	F-NT2RM2001588	0. 48
35	NT2RM2001592	F-NT2RM2001592	0. 64
	NT2RM2001605	F-NT2RM2001605	0. 47
	NT2RM2001613	F-NT2RM2001613	0. 61
	NT2RM2001632	F-NT2RM2001632	0. 31
	NT2RM2001635	F-NT2RM2001635	0. 39
40	NT2RM2001637	F-NT2RM2001637	0. 71
	NT2RM2001641	F-NT2RM2001641	0. 73
	NT2RM2001648	F-NT2RM2001648	0. 44
	NT2RM2001652	F-NT2RM2001652	0. 40
	NT2RM2001659	F-NT2RM2001659	0. 35
45	NT2RM2001664	F-NT2RM2001664	0. 53
	NT2RM2001668	F-NT2RM2001668	0. 64

	NT2RM2001670	F-NT2RM2001670	0.59
	NT2RM2001671	F-NT2RM2001671	0.41
	NT2RM2001675	F-NT2RM2001675	0.51
	NT2RM2001681	F-NT2RM2001681	0.33
5	NT2RM2001688	F-NT2RM2001688	0.74
	NT2RM2001695	F-NT2RM2001695	0.31
	NT2RM2001696	F-NT2RM2001696	0.94
	NT2RM2001698	F-NT2RM2001698	0.69
	NT2RM2001699	F-NT2RM2001699	0.85
10	NT2RM2001700	F-NT2RM2001700	0.71
	NT2RM2001706	F-NT2RM2001706	0.38
	NT2RM2001716	F-NT2RM2001716	0.78
	NT2RM2001718	F-NT2RM2001718	0.81
	NT2RM2001723	F-NT2RM2001723	0.83
15	NT2RM2001727	F-NT2RM2001727	0.87
	NT2RM2001730	F-NT2RM2001730	0.94
	NT2RM2001743	F-NT2RM2001743	0.94
	NT2RM2001753	F-NT2RM2001753	0.75
	NT2RM2001760	F-NT2RM2001760	0.75
20	NT2RM2001768	F-NT2RM2001768	0.71
	NT2RM2001771	F-NT2RM2001771	0.33
	NT2RM2001782	F-NT2RM2001782	0.34
	NT2RM2001784	F-NT2RM2001784	0.45
	NT2RM2001785	F-NT2RM2001785	0.94
25	NT2RM2001797	F-NT2RM2001797	0.74
	NT2RM2001800	F-NT2RM2001800	0.90
	NT2RM2001803	F-NT2RM2001803	0.36
	NT2RM2001805	F-NT2RM2001805	0.81
	NT2RM2001813	F-NT2RM2001813	0.94
30	NT2RM2001823	F-NT2RM2001823	0.94
	NT2RM2001839	F-NT2RM2001839	0.39
	NT2RM2001840	F-NT2RM2001840	0.94
	NT2RM2001855	F-NT2RM2001855	0.92
	NT2RM2001867	F-NT2RM2001867	0.82
35	NT2RM2001879	F-NT2RM2001879	0.86
	NT2RM2001886	F-NT2RM2001886	0.91
	NT2RM2001896	F-NT2RM2001896	0.94
	NT2RM2001903	F-NT2RM2001903	0.61
	NT2RM2001930	F-NT2RM2001930	0.94
40	NT2RM2001935	F-NT2RM2001935	0.77
	NT2RM2001936	F-NT2RM2001936	0.94
	NT2RM2001950	F-NT2RM2001950	0.34
	NT2RM2001982	F-NT2RM2001982	0.48
	NT2RM2001983	F-NT2RM2001983	0.59
45	NT2RM2001989	F-NT2RM2001989	0.94
	NT2RM2001997	F-NT2RM2001997	0.90

	NT2RM2001998	F-NT2RM2001998	0.72
	NT2RM2002004	F-NT2RM2002004	0.46
	NT2RM2002014	F-NT2RM2002014	0.32
	NT2RM2002030	F-NT2RM2002030	0.54
5	NT2RM2002049	F-NT2RM2002049	0.59
	NT2RM2002055	F-NT2RM2002055	0.94
	NT2RM2002088	F-NT2RM2002088	0.47
	NT2RM2002091	F-NT2RM2002091	0.78
	NT2RM2002100	F-NT2RM2002100	0.87
10	NT2RM2002109	F-NT2RM2002109	0.86
	NT2RM2002128	F-NT2RM2002128	0.42
	NT2RM2002142	F-NT2RM2002142	0.94
	NT2RM2002145	F-NT2RM2002145	0.94
	NT2RM2002178	F-NT2RM2002178	0.44
15	NT2RM2002580	F-NT2RM2002580	0.94
	NT2RM4000024	F-NT2RM4000024	0.76
	NT2RM4000027	F-NT2RM4000027	0.40
	NT2RM4000030	F-NT2RM4000030	0.66
	NT2RM4000061	F-NT2RM4000061	0.33
20	NT2RM4000104	F-NT2RM4000104	0.93
	NT2RM4000139	F-NT2RM4000139	0.87
	NT2RM4000155	F-NT2RM4000155	0.51
	NT2RM4000156	F-NT2RM4000156	0.39
	NT2RM4000167	F-NT2RM4000167	0.50
25	NT2RM4000169	F-NT2RM4000169	0.44
	NT2RM4000191	F-NT2RM4000191	0.94
	NT2RM4000197	F-NT2RM4000197	0.41
	NT2RM4000199	F-NT2RM4000199	0.76
	NT2RM4000202	F-NT2RM4000202	0.47
30	NT2RM4000210	F-NT2RM4000210	0.44
	NT2RM4000215	F-NT2RM4000215	0.94
	NT2RM4000229	F-NT2RM4000229	0.93
	NT2RM4000233	F-NT2RM4000233	0.74
	NT2RM4000251	F-NT2RM4000251	0.48
35	NT2RM4000290	F-NT2RM4000290	0.94
	NT2RM4000324	F-NT2RM4000324	0.32
	NT2RM4000344	F-NT2RM4000344	0.94
	NT2RM4000349	F-NT2RM4000349	0.78
	NT2RM4000354	F-NT2RM4000354	0.36
40	NT2RM4000356	F-NT2RM4000356	0.58
	NT2RM4000386	F-NT2RM4000386	0.90
	NT2RM4000395	F-NT2RM4000395	0.47
	NT2RM4000421	F-NT2RM4000421	0.46
	NT2RM4000433	F-NT2RM4000433	0.48
45	NT2RM4000457	F-NT2RM4000457	0.75
	NT2RM4000471	F-NT2RM4000471	0.92

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	NT2RM4000486	F-NT2RM4000486	0. 55
	NT2RM4000496	F-NT2RM4000496	0. 62
	NT2RM4000511	F-NT2RM4000511	0. 74
	NT2RM4000514	F-NT2RM4000514	0. 72
5	NT2RM4000515	F-NT2RM4000515	0. 66
	NT2RM4000520	F-NT2RM4000520	0. 69
	NT2RM4000531	F-NT2RM4000531	0. 62
	NT2RM4000534	F-NT2RM4000534	0. 94
	NT2RM4000585	F-NT2RM4000585	0. 52
10	NT2RM4000590	F-NT2RM4000590	0. 94
	NT2RM4000595	F-NT2RM4000595	0. 44
	NT2RM4000603	F-NT2RM4000603	0. 94
	NT2RM4000611	F-NT2RM4000611	0. 46
	NT2RM4000616	F-NT2RM4000616	0. 94
15	NT2RM4000674	F-NT2RM4000674	0. 80
	NT2RM4000689	F-NT2RM4000689	0. 58
	NT2RM4000698	F-NT2RM4000698	0. 71
	NT2RM4000700	F-NT2RM4000700	0. 59
	NT2RM4000712	F-NT2RM4000712	0. 94
20	NT2RM4000717	F-NT2RM4000717	0. 69
	NT2RM4000733	F-NT2RM4000733	0. 94
	NT2RM4000734	F-NT2RM4000734	0. 42
	NT2RM4000741	F-NT2RM4000741	0. 83
	NT2RM4000751	F-NT2RM4000751	0. 91
25	NT2RM4000764	F-NT2RM4000764	0. 35
	NT2RM4000778	F-NT2RM4000778	0. 90
	NT2RM4000787	F-NT2RM4000787	0. 40
	NT2RM4000790	F-NT2RM4000790	0. 62
	NT2RM4000795	F-NT2RM4000795	0. 94
30	NT2RM4000796	F-NT2RM4000796	0. 93
	NT2RM4000798	F-NT2RM4000798	0. 61
	NT2RM4000813	F-NT2RM4000813	0. 58
	NT2RM4000820	F-NT2RM4000820	0. 39
	NT2RM4000833	F-NT2RM4000833	0. 80
35	NT2RM4000848	F-NT2RM4000848	0. 73
	NT2RM4000852	F-NT2RM4000852	0. 74
	NT2RM4000887	F-NT2RM4000887	0. 42
	NT2RM4000895	F-NT2RM4000895	0. 47
	NT2RM4000950	F-NT2RM4000950	0. 53
40	NT2RM4000971	F-NT2RM4000971	0. 73
	NT2RM4000996	F-NT2RM4000996	0. 42
	NT2RM4001002	F-NT2RM4001002	0. 57
	NT2RM4001032	F-NT2RM4001032	0. 94
	NT2RM4001047	F-NT2RM4001047	0. 76
45	NT2RM4001054	F-NT2RM4001054	0. 91
	NT2RM4001084	F-NT2RM4001084	0. 94

	NT2RM4001092	F-NT2RM4001092	0.94
	NT2RM4001116	F-NT2RM4001116	0.36
	NT2RM4001140	F-NT2RM4001140	0.82
	NT2RM4001151	F-NT2RM4001151	0.94
5	NT2RM4001155	F-NT2RM4001155	0.94
	NT2RM4001187	F-NT2RM4001187	0.61
	NT2RM4001191	F-NT2RM4001191	0.77
	NT2RM4001200	F-NT2RM4001200	0.72
	NT2RM4001203	F-NT2RM4001203	0.60
10	NT2RM4001204	F-NT2RM4001204	0.89
	NT2RM4001217	F-NT2RM4001217	0.93
	NT2RM4001256	F-NT2RM4001256	0.89
	NT2RM4001258	F-NT2RM4001258	0.94
	NT2RM4001309	F-NT2RM4001309	0.88
15	NT2RM4001316	F-NT2RM4001316	0.38
	NT2RM4001320	F-NT2RM4001320	0.33
	NT2RM4001340	F-NT2RM4001340	0.83
	NT2RM4001344	F-NT2RM4001344	0.94
	NT2RM4001347	F-NT2RM4001347	0.88
20	NT2RM4001371	F-NT2RM4001371	0.61
	NT2RM4001382	F-NT2RM4001382	0.93
	NT2RM4001384	F-NT2RM4001384	0.32
	NT2RM4001410	F-NT2RM4001410	0.94
	NT2RM4001411	F-NT2RM4001411	0.47
25	NT2RM4001412	F-NT2RM4001412	0.85
	NT2RM4001444	F-NT2RM4001444	0.94
	NT2RM4001454	F-NT2RM4001454	0.72
	NT2RM4001455	F-NT2RM4001455	0.39
	NT2RM4001483	F-NT2RM4001483	0.76
30	NT2RM4001489	F-NT2RM4001489	0.94
	NT2RM4001522	F-NT2RM4001522	0.88
	NT2RM4001565	F-NT2RM4001565	0.78
	NT2RM4001566	F-NT2RM4001566	0.87
	NT2RM4001569	F-NT2RM4001569	0.70
35	NT2RM4001582	F-NT2RM4001582	0.76
	NT2RM4001592	F-NT2RM4001592	0.31
	NT2RM4001594	F-NT2RM4001594	0.86
	NT2RM4001597	F-NT2RM4001597	0.91
	NT2RM4001611	F-NT2RM4001611	0.91
40	NT2RM4001629	F-NT2RM4001629	0.72
	NT2RM4001650	F-NT2RM4001650	0.37
	NT2RM4001662	F-NT2RM4001662	0.70
	NT2RM4001666	F-NT2RM4001666	0.37
	NT2RM4001682	F-NT2RM4001682	0.91
45	NT2RM4001710	F-NT2RM4001710	0.45
	NT2RM4001714	F-NT2RM4001714	0.94

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	NT2RM4001715	F-NT2RM4001715	0.33
	NT2RM4001731	F-NT2RM4001731	0.94
	NT2RM4001741	F-NT2RM4001741	0.87
	NT2RM4001746	F-NT2RM4001746	0.81
5	NT2RM4001758	F-NT2RM4001758	0.59
	NT2RM4001783	F-NT2RM4001783	0.68
	NT2RM4001813	F-NT2RM4001813	0.39
	NT2RM4001819	F-NT2RM4001819	0.43
	NT2RM4001823	F-NT2RM4001823	0.94
10	NT2RM4001828	F-NT2RM4001828	0.83
	NT2RM4001836	F-NT2RM4001836	0.61
	NT2RM4001841	F-NT2RM4001841	0.37
	NT2RM4001842	F-NT2RM4001842	0.68
	NT2RM4001865	F-NT2RM4001865	0.91
15	NT2RM4001876	F-NT2RM4001876	0.88
	NT2RM4001880	F-NT2RM4001880	0.43
	NT2RM4001905	F-NT2RM4001905	0.94
	NT2RM4001922	F-NT2RM4001922	0.48
	NT2RM4001938	F-NT2RM4001938	0.67
20	NT2RM4001940	F-NT2RM4001940	0.92
	NT2RM4001965	F-NT2RM4001965	0.94
	NT2RM4001969	F-NT2RM4001969	0.88
	NT2RM4001979	F-NT2RM4001979	0.42
	NT2RM4001987	F-NT2RM4001987	0.86
25	NT2RM4002013	F-NT2RM4002013	0.94
	NT2RM4002018	F-NT2RM4002018	0.92
	NT2RM4002034	F-NT2RM4002034	0.43
	NT2RM4002044	F-NT2RM4002044	0.42
	NT2RM4002054	F-NT2RM4002054	0.88
30	NT2RM4002055	F-NT2RM4002055	0.32
	NT2RM4002062	F-NT2RM4002062	0.87
	NT2RM4002063	F-NT2RM4002063	0.49
	NT2RM4002066	F-NT2RM4002066	0.39
	NT2RM4002073	F-NT2RM4002073	0.78
35	NT2RM4002075	F-NT2RM4002075	0.87
	NT2RM4002093	F-NT2RM4002093	0.82
	NT2RM4002109	F-NT2RM4002109	0.52
	NT2RM4002128	F-NT2RM4002128	0.68
	NT2RM4002140	F-NT2RM4002140	0.94
40	NT2RM4002145	F-NT2RM4002145	0.94
	NT2RM4002146	F-NT2RM4002146	0.89
	NT2RM4002161	F-NT2RM4002161	0.49
	NT2RM4002174	F-NT2RM4002174	0.36
	NT2RM4002189	F-NT2RM4002189	0.34
45	NT2RM4002194	F-NT2RM4002194	0.73
	NT2RM4002205	F-NT2RM4002205	0.94

	NT2RM4002213	F-NT2RM4002213	0.52
	NT2RM4002226	F-NT2RM4002226	0.48
	NT2RM4002251	F-NT2RM4002251	0.94
	NT2RM4002256	F-NT2RM4002256	0.93
5	NT2RM4002266	F-NT2RM4002266	0.73
	NT2RM4002294	F-NT2RM4002294	0.86
	NT2RM4002301	F-NT2RM4002301	0.40
	NT2RM4002323	F-NT2RM4002323	0.81
	NT2RM4002339	F-NT2RM4002339	0.32
10	NT2RM4002344	F-NT2RM4002344	0.87
	NT2RM4002373	F-NT2RM4002373	0.41
	NT2RM4002374	F-NT2RM4002374	0.33
	NT2RM4002398	F-NT2RM4002398	0.94
	NT2RM4002409	F-NT2RM4002409	0.82
15	NT2RM4002446	F-NT2RM4002446	0.61
	NT2RM4002452	F-NT2RM4002452	0.47
	NT2RM4002457	F-NT2RM4002457	0.92
	NT2RM4002460	F-NT2RM4002460	0.61
	NT2RM4002482	F-NT2RM4002482	0.94
20	NT2RM4002493	F-NT2RM4002493	0.39
	NT2RM4002527	F-NT2RM4002527	0.64
	NT2RM4002534	F-NT2RM4002534	0.76
	NT2RM4002558	F-NT2RM4002558	0.62
	NT2RM4002565	F-NT2RM4002565	0.54
25	NT2RM4002571	F-NT2RM4002571	0.90
	NT2RM4002593	F-NT2RM4002593	0.91
	NT2RM4002594	F-NT2RM4002594	0.70
	NT2RM4002623	F-NT2RM4002623	0.81
	NT2RP1000018	F-NT2RP1000018	0.31
30	NT2RP1000035	F-NT2RP1000035	0.49
	NT2RP1000040	F-NT2RP1000040	0.45
	NT2RP1000063	F-NT2RP1000063	0.90
	NT2RP1000086	F-NT2RP1000086	0.89
	NT2RP1000101	F-NT2RP1000101	0.76
35	NT2RP1000111	F-NT2RP1000111	0.94
	NT2RP1000112	F-NT2RP1000112	0.45
	NT2RP1000124	F-NT2RP1000124	0.94
	NT2RP1000130	F-NT2RP1000130	0.69
	NT2RP1000163	F-NT2RP1000163	0.90
40	NT2RP1000170	F-NT2RP1000170	0.94
	NT2RP1000174	F-NT2RP1000174	0.74
	NT2RP1000191	F-NT2RP1000191	0.76
	NT2RP1000202	F-NT2RP1000202	0.60
	NT2RP1000243	F-NT2RP1000243	0.81
45	NT2RP1000259	F-NT2RP1000259	0.79
	NT2RP1000272	F-NT2RP1000272	0.94

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	NT2RP1000324	F-NT2RP1000324	0.32
	NT2RP1000326	F-NT2RP1000326	0.94
	NT2RP1000333	F-NT2RP1000333	0.94
	NT2RP1000348	F-NT2RP1000348	0.94
5	NT2RP1000357	F-NT2RP1000357	0.87
	NT2RP1000358	F-NT2RP1000358	0.79
	NT2RP1000363	F-NT2RP1000363	0.40
	NT2RP1000376	F-NT2RP1000376	0.61
	NT2RP1000409	F-NT2RP1000409	0.85
10	NT2RP1000413	F-NT2RP1000413	0.42
	NT2RP1000416	F-NT2RP1000416	0.68
	NT2RP1000418	F-NT2RP1000418	0.88
	NT2RP1000439	F-NT2RP1000439	0.69
	NT2RP1000443	F-NT2RP1000443	0.59
15	NT2RP1000460	F-NT2RP1000460	0.86
	NT2RP1000470	F-NT2RP1000470	0.56
	NT2RP1000478	F-NT2RP1000478	0.87
	NT2RP1000481	F-NT2RP1000481	0.58
	NT2RP1000493	F-NT2RP1000493	0.34
20	NT2RP1000513	F-NT2RP1000513	0.89
	NT2RP1000522	F-NT2RP1000522	0.34
	NT2RP1000547	F-NT2RP1000547	0.89
	NT2RP1000574	F-NT2RP1000574	0.74
	NT2RP1000577	F-NT2RP1000577	0.53
25	NT2RP1000581	F-NT2RP1000581	0.66
	NT2RP1000609	F-NT2RP1000609	0.90
	NT2RP1000629	F-NT2RP1000629	0.94
	NT2RP1000630	F-NT2RP1000630	0.93
	NT2RP1000677	F-NT2RP1000677	0.94
30	NT2RP1000688	F-NT2RP1000688	0.94
	NT2RP1000695	F-NT2RP1000695	0.89
	NT2RP1000701	F-NT2RP1000701	0.89
	NT2RP1000721	F-NT2RP1000721	0.91
	NT2RP1000730	F-NT2RP1000730	0.94
35	NT2RP1000733	F-NT2RP1000733	0.90
	NT2RP1000738	F-NT2RP1000738	0.64
	NT2RP1000746	F-NT2RP1000746	0.92
	NT2RP1000767	F-NT2RP1000767	0.82
	NT2RP1000782	F-NT2RP1000782	0.94
40	NT2RP1000796	F-NT2RP1000796	0.33
	NT2RP1000825	F-NT2RP1000825	0.74
	NT2RP1000833	F-NT2RP1000833	0.94
	NT2RP1000834	F-NT2RP1000834	0.88
	NT2RP1000836	F-NT2RP1000836	0.59
45	NT2RP1000846	F-NT2RP1000846	0.46
	NT2RP1000851	F-NT2RP1000851	0.82

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	NT2RP1000856	F-NT2RP1000856	0.94
	NT2RP1000860	F-NT2RP1000860	0.60
	NT2RP1000902	F-NT2RP1000902	0.42
	NT2RP1000915	F-NT2RP1000915	0.90
5	NT2RP1000916	F-NT2RP1000916	0.67
	NT2RP1000943	F-NT2RP1000943	0.77
	NT2RP1000944	F-NT2RP1000944	0.94
	NT2RP1000947	F-NT2RP1000947	0.38
	NT2RP1000954	F-NT2RP1000954	0.59
10	NT2RP1000958	F-NT2RP1000958	0.59
	NT2RP1000959	F-NT2RP1000959	0.74
	NT2RP1000966	F-NT2RP1000966	0.93
	NT2RP1000980	F-NT2RP1000980	0.31
	NT2RP1000988	F-NT2RP1000988	0.53
15	NT2RP1001011	F-NT2RP1001011	0.65
	NT2RP1001013	F-NT2RP1001013	0.34
	NT2RP1001014	F-NT2RP1001014	0.94
	NT2RP1001033	F-NT2RP1001033	0.40
	NT2RP1001073	F-NT2RP1001073	0.74
20	NT2RP1001079	F-NT2RP1001079	0.48
	NT2RP1001080	F-NT2RP1001080	0.91
	NT2RP1001113	F-NT2RP1001113	0.94
	NT2RP1001173	F-NT2RP1001173	0.57
	NT2RP1001177	F-NT2RP1001177	0.75
25	NT2RP1001185	F-NT2RP1001185	0.94
	NT2RP1001199	F-NT2RP1001199	0.42
	NT2RP1001247	F-NT2RP1001247	0.67
	NT2RP1001248	F-NT2RP1001248	0.89
	NT2RP1001253	F-NT2RP1001253	0.94
30	NT2RP1001286	F-NT2RP1001286	0.59
	NT2RP1001294	F-NT2RP1001294	0.81
	NT2RP1001302	F-NT2RP1001302	0.86
	NT2RP1001310	F-NT2RP1001310	0.91
	NT2RP1001311	F-NT2RP1001311	0.87
35	NT2RP1001313	F-NT2RP1001313	0.91
	NT2RP1001361	F-NT2RP1001361	0.83
	NT2RP1001385	F-NT2RP1001385	0.36
	NT2RP1001395	F-NT2RP1001395	0.84
	NT2RP1001410	F-NT2RP1001410	0.72
40	NT2RP1001424	F-NT2RP1001424	0.81
	NT2RP1001432	F-NT2RP1001432	0.81
	NT2RP1001449	F-NT2RP1001449	0.77
	NT2RP1001457	F-NT2RP1001457	0.92
	NT2RP1001466	F-NT2RP1001466	0.44
45	NT2RP1001475	F-NT2RP1001475	0.53
	NT2RP1001482	F-NT2RP1001482	0.34

	NT2RP1001494	F-NT2RP1001494	0.93
	NT2RP1001543	F-NT2RP1001543	0.94
	NT2RP1001546	F-NT2RP1001546	0.94
	NT2RP1001569	F-NT2RP1001569	0.93
5	NT2RP1001616	F-NT2RP1001616	0.46
	NT2RP1001665	F-NT2RP1001665	0.94
	NT2RP2000001	F-NT2RP2000001	0.94
	NT2RP2000006	F-NT2RP2000006	0.74
	NT2RP2000007	F-NT2RP2000007	0.94
10	NT2RP2000008	F-NT2RP2000008	0.83
	NT2RP2000032	F-NT2RP2000032	0.94
	NT2RP2000040	F-NT2RP2000040	0.92
	NT2RP2000045	F-NT2RP2000045	0.94
	NT2RP2000054	F-NT2RP2000054	0.53
15	NT2RP2000056	F-NT2RP2000056	0.42
	NT2RP2000067	F-NT2RP2000067	0.88
	NT2RP2000070	F-NT2RP2000070	0.48
	NT2RP2000079	F-NT2RP2000079	0.85
	NT2RP2000088	F-NT2RP2000088	0.94
20	NT2RP2000091	F-NT2RP2000091	0.79
	NT2RP2000097	F-NT2RP2000097	0.66
	NT2RP2000114	F-NT2RP2000114	0.86
	NT2RP2000120	F-NT2RP2000120	0.48
	NT2RP2000126	F-NT2RP2000126	0.77
25	NT2RP2000133	F-NT2RP2000133	0.64
	NT2RP2000147	F-NT2RP2000147	0.94
	NT2RP2000153	F-NT2RP2000153	0.87
	NT2RP2000157	F-NT2RP2000157	0.48
	NT2RP2000161	F-NT2RP2000161	0.79
30	NT2RP2000173	F-NT2RP2000173	0.75
	NT2RP2000175	F-NT2RP2000175	0.79
	NT2RP2000195	F-NT2RP2000195	0.91
	NT2RP2000205	F-NT2RP2000205	0.94
	NT2RP2000208	F-NT2RP2000208	0.84
35	NT2RP2000224	F-NT2RP2000224	0.52
	NT2RP2000232	F-NT2RP2000232	0.33
	NT2RP2000233	F-NT2RP2000233	0.57
	NT2RP2000239	F-NT2RP2000239	0.52
	NT2RP2000248	F-NT2RP2000248	0.36
40	NT2RP2000274	F-NT2RP2000274	0.55
	NT2RP2000283	F-NT2RP2000283	0.61
	NT2RP2000288	F-NT2RP2000288	0.31
	NT2RP2000297	F-NT2RP2000297	0.78
	NT2RP2000298	F-NT2RP2000298	0.94
45	NT2RP2000310	F-NT2RP2000310	0.52
	NT2RP2000328	F-NT2RP2000328	0.75

	NT2RP2000329	F-NT2RP2000329	0.94
	NT2RP2000346	F-NT2RP2000346	0.62
	NT2RP2000369	F-NT2RP2000369	0.87
	NT2RP2000412	F-NT2RP2000412	0.75
5	NT2RP2000414	F-NT2RP2000414	0.79
	NT2RP2000422	F-NT2RP2000422	0.46
	NT2RP2000438	F-NT2RP2000438	0.94
	NT2RP2000448	F-NT2RP2000448	0.94
	NT2RP2000503	F-NT2RP2000503	0.94
10	NT2RP2000510	F-NT2RP2000510	0.87
	NT2RP2000516	F-NT2RP2000516	0.42
	NT2RP2000617	F-NT2RP2000617	0.94
	NT2RP2000634	F-NT2RP2000634	0.74
	NT2RP2000656	F-NT2RP2000656	0.68
15	NT2RP2000658	F-NT2RP2000658	0.55
	NT2RP2000668	F-NT2RP2000668	0.81
	NT2RP2000704	F-NT2RP2000704	0.88
	NT2RP2000710	F-NT2RP2000710	0.58
	NT2RP2000764	F-NT2RP2000764	0.59
20	NT2RP2000809	F-NT2RP2000809	0.51
	NT2RP2000812	F-NT2RP2000812	0.37
	NT2RP2000814	F-NT2RP2000814	0.66
	NT2RP2000816	F-NT2RP2000816	0.50
	NT2RP2000819	F-NT2RP2000819	0.35
25	NT2RP2000841	F-NT2RP2000841	0.93
	NT2RP2000845	F-NT2RP2000845	0.78
	NT2RP2000863	F-NT2RP2000863	0.41
	NT2RP2000880	F-NT2RP2000880	0.79
	NT2RP2000892	F-NT2RP2000892	0.94
30	NT2RP2000931	F-NT2RP2000931	0.89
	NT2RP2000932	F-NT2RP2000932	0.94
	NT2RP2000938	F-NT2RP2000938	0.90
	NT2RP2000943	F-NT2RP2000943	0.61
	NT2RP2000965	F-NT2RP2000965	0.80
35	NT2RP2000985	F-NT2RP2000985	0.94
	NT2RP2001036	F-NT2RP2001036	0.86
	NT2RP2001044	F-NT2RP2001044	0.93
	NT2RP2001056	F-NT2RP2001056	0.77
	NT2RP2001065	F-NT2RP2001065	0.73
40	NT2RP2001070	F-NT2RP2001070	0.91
	NT2RP2001081	F-NT2RP2001081	0.94
	NT2RP2001094	F-NT2RP2001094	0.93
	NT2RP2001119	F-NT2RP2001119	0.31
	NT2RP2001127	F-NT2RP2001127	0.41
45	NT2RP2001137	F-NT2RP2001137	0.93
	NT2RP2001168	F-NT2RP2001168	0.71

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	NT2RP2001173	F-NT2RP2001173	0.94
	NT2RP2001174	F-NT2RP2001174	0.71
	NT2RP2001218	F-NT2RP2001218	0.76
	NT2RP2001233	F-NT2RP2001233	0.31
5	NT2RP2001245	F-NT2RP2001245	0.33
	NT2RP2001268	F-NT2RP2001268	0.61
	NT2RP2001327	F-NT2RP2001327	0.86
	NT2RP2001328	F-NT2RP2001328	0.94
	NT2RP2001366	F-NT2RP2001366	0.52
10	NT2RP2001378	F-NT2RP2001378	0.64
	NT2RP2001381	F-NT2RP2001381	0.80
	NT2RP2001392	F-NT2RP2001392	0.69
	NT2RP2001394	F-NT2RP2001394	0.38
	NT2RP2001397	F-NT2RP2001397	0.79
15	NT2RP2001420	F-NT2RP2001420	0.88
	NT2RP2001427	F-NT2RP2001427	0.73
	NT2RP2001436	F-NT2RP2001436	0.32
	NT2RP2001440	F-NT2RP2001440	0.94
	NT2RP2001450	F-NT2RP2001450	0.38
20	NT2RP2001511	F-NT2RP2001511	0.53
	NT2RP2001520	F-NT2RP2001520	0.88
	NT2RP2001536	F-NT2RP2001536	0.64
	NT2RP2001560	F-NT2RP2001560	0.79
	NT2RP2001576	F-NT2RP2001576	0.62
25	NT2RP2001581	F-NT2RP2001581	0.48
	NT2RP2001597	F-NT2RP2001597	0.94
	NT2RP2001601	F-NT2RP2001601	0.33
	NT2RP2001613	F-NT2RP2001613	0.41
	NT2RP2001628	F-NT2RP2001628	0.79
30	NT2RP2001634	F-NT2RP2001634	0.87
	NT2RP2001660	F-NT2RP2001660	0.86
	NT2RP2001675	F-NT2RP2001675	0.90
	NT2RP2001721	F-NT2RP2001721	0.32
	NT2RP2001748	F-NT2RP2001748	0.32
35	NT2RP2001839	F-NT2RP2001839	0.83
	NT2RP2001861	F-NT2RP2001861	0.33
	NT2RP2001876	F-NT2RP2001876	0.94
	NT2RP2001883	F-NT2RP2001883	0.90
	NT2RP2001898	F-NT2RP2001898	0.94
40	NT2RP2001900	F-NT2RP2001900	0.93
	NT2RP2001907	F-NT2RP2001907	0.94
	NT2RP2001946	F-NT2RP2001946	0.63
	NT2RP2001947	F-NT2RP2001947	0.75
	NT2RP2001969	F-NT2RP2001969	0.94
45	NT2RP2001976	F-NT2RP2001976	0.48
	NT2RP2001985	F-NT2RP2001985	0.44

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	NT2RP2001991	F-NT2RP2001991	0.39
	NT2RP2002025	F-NT2RP2002025	0.94
	NT2RP2002033	F-NT2RP2002033	0.40
	NT2RP2002046	F-NT2RP2002046	0.56
5	NT2RP2002058	F-NT2RP2002058	0.64
	NT2RP2002076	F-NT2RP2002076	0.40
	NT2RP2002078	F-NT2RP2002078	0.81
	NT2RP2002079	F-NT2RP2002079	0.82
	NT2RP2002099	F-NT2RP2002099	0.92
10	NT2RP2002154	F-NT2RP2002154	0.44
	NT2RP2002185	F-NT2RP2002185	0.94
	NT2RP2002193	F-NT2RP2002193	0.48
	NT2RP2002208	F-NT2RP2002208	0.49
	NT2RP2002231	F-NT2RP2002231	0.61
15	NT2RP2002235	F-NT2RP2002235	0.87
	NT2RP2002252	F-NT2RP2002252	0.51
	NT2RP2002270	F-NT2RP2002270	0.78
	NT2RP2002292	F-NT2RP2002292	0.94
	NT2RP2002312	F-NT2RP2002312	0.33
20	NT2RP2002325	F-NT2RP2002325	0.53
	NT2RP2002333	F-NT2RP2002333	0.60
	NT2RP2002373	F-NT2RP2002373	0.91
	NT2RP2002385	F-NT2RP2002385	0.94
	NT2RP2002408	F-NT2RP2002408	0.44
25	NT2RP2002426	F-NT2RP2002426	0.54
	NT2RP2002442	F-NT2RP2002442	0.37
	NT2RP2002464	F-NT2RP2002464	0.79
	NT2RP2002479	F-NT2RP2002479	0.92
	NT2RP2002498	F-NT2RP2002498	0.94
30	NT2RP2002503	F-NT2RP2002503	0.90
	NT2RP2002520	F-NT2RP2002520	0.37
	NT2RP2002537	F-NT2RP2002537	0.42
	NT2RP2002549	F-NT2RP2002549	0.75
	NT2RP2002595	F-NT2RP2002595	0.90
35	NT2RP2002609	F-NT2RP2002609	0.33
	NT2RP2002618	F-NT2RP2002618	0.52
	NT2RP2002621	F-NT2RP2002621	0.67
	NT2RP2002672	F-NT2RP2002672	0.43
	NT2RP2002701	F-NT2RP2002701	0.69
40	NT2RP2002706	F-NT2RP2002706	0.51
	NT2RP2002710	F-NT2RP2002710	0.94
	NT2RP2002769	F-NT2RP2002769	0.42
	NT2RP2002800	F-NT2RP2002800	0.47
	NT2RP2002862	F-NT2RP2002862	0.88
45	NT2RP2002880	F-NT2RP2002880	0.78
	NT2RP2002891	F-NT2RP2002891	0.69

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	NT2RP2002925	F-NT2RP2002925	0.65
	NT2RP2002928	F-NT2RP2002928	0.47
	NT2RP2002929	F-NT2RP2002929	0.94
	NT2RP2002939	F-NT2RP2002939	0.94
5	NT2RP2002954	F-NT2RP2002954	0.94
	NT2RP2002959	F-NT2RP2002959	0.45
	NT2RP2002979	F-NT2RP2002979	0.51
	NT2RP2002980	F-NT2RP2002980	0.38
	NT2RP2002986	F-NT2RP2002986	0.34
10	NT2RP2002993	F-NT2RP2002993	0.94
	NT2RP2003034	F-NT2RP2003034	0.34
	NT2RP2003099	F-NT2RP2003099	0.46
	NT2RP2003108	F-NT2RP2003108	0.67
	NT2RP2003117	F-NT2RP2003117	0.57
15	NT2RP2003121	F-NT2RP2003121	0.94
	NT2RP2003125	F-NT2RP2003125	0.94
	NT2RP2003137	F-NT2RP2003137	0.60
	NT2RP2003157	F-NT2RP2003157	0.94
	NT2RP2003158	F-NT2RP2003158	0.75
20	NT2RP2003165	F-NT2RP2003165	0.90
	NT2RP2003177	F-NT2RP2003177	0.85
	NT2RP2003194	F-NT2RP2003194	0.94
	NT2RP2003228	F-NT2RP2003228	0.57
	NT2RP2003243	F-NT2RP2003243	0.94
25	NT2RP2003265	F-NT2RP2003265	0.68
	NT2RP2003272	F-NT2RP2003272	0.94
	NT2RP2003277	F-NT2RP2003277	0.73
	NT2RP2003280	F-NT2RP2003280	0.94
	NT2RP2003286	F-NT2RP2003286	0.44
30	NT2RP2003293	F-NT2RP2003293	0.42
	NT2RP2003295	F-NT2RP2003295	0.89
	NT2RP2003297	F-NT2RP2003297	0.94
	NT2RP2003307	F-NT2RP2003307	0.79
	NT2RP2003308	F-NT2RP2003308	0.49
35	NT2RP2003329	F-NT2RP2003329	0.33
	NT2RP2003347	F-NT2RP2003347	0.79
	NT2RP2003367	F-NT2RP2003367	0.94
	NT2RP2003391	F-NT2RP2003391	0.90
	NT2RP2003393	F-NT2RP2003393	0.94
40	NT2RP2003401	F-NT2RP2003401	0.80
	NT2RP2003433	F-NT2RP2003433	0.40
	NT2RP2003445	F-NT2RP2003445	0.94
	NT2RP2003446	F-NT2RP2003446	0.40
	NT2RP2003466	F-NT2RP2003466	0.58
45	NT2RP2003480	F-NT2RP2003480	0.59
	NT2RP2003506	F-NT2RP2003506	0.94

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	NT2RP2003511	F-NT2RP2003511	0. 31
	NT2RP2003513	F-NT2RP2003513	0. 67
	NT2RP2003533	F-NT2RP2003533	0. 57
	NT2RP2003543	F-NT2RP2003543	0. 94
5	NT2RP2003564	F-NT2RP2003564	0. 88
	NT2RP2003567	F-NT2RP2003567	0. 69
	NT2RP2003581	F-NT2RP2003581	0. 40
	NT2RP2003596	F-NT2RP2003596	0. 83
	NT2RP2003604	F-NT2RP2003604	0. 87
10	NT2RP2003629	F-NT2RP2003629	0. 87
	NT2RP2003643	F-NT2RP2003643	0. 94
	NT2RP2003687	F-NT2RP2003687	0. 31
	NT2RP2003691	F-NT2RP2003691	0. 34
	NT2RP2003702	F-NT2RP2003702	0. 80
15	NT2RP2003713	F-NT2RP2003713	0. 53
	NT2RP2003714	F-NT2RP2003714	0. 61
	NT2RP2003737	F-NT2RP2003737	0. 88
	NT2RP2003751	F-NT2RP2003751	0. 36
	NT2RP2003760	F-NT2RP2003760	0. 62
20	NT2RP2003764	F-NT2RP2003764	0. 94
	NT2RP2003769	F-NT2RP2003769	0. 69
	NT2RP2003777	F-NT2RP2003777	0. 93
	NT2RP2003781	F-NT2RP2003781	0. 37
	NT2RP2003793	F-NT2RP2003793	0. 92
25	NT2RP2003825	F-NT2RP2003825	0. 49
	NT2RP2003840	F-NT2RP2003840	0. 88
	NT2RP2003857	F-NT2RP2003857	0. 34
	NT2RP2003952	F-NT2RP2003952	0. 89
	NT2RP2003976	F-NT2RP2003976	0. 33
30	NT2RP2003981	F-NT2RP2003981	0. 64
	NT2RP2003984	F-NT2RP2003984	0. 41
	NT2RP2003986	F-NT2RP2003986	0. 32
	NT2RP2004013	F-NT2RP2004013	0. 48
	NT2RP2004041	F-NT2RP2004041	0. 78
35	NT2RP2004042	F-NT2RP2004042	0. 66
	NT2RP2004066	F-NT2RP2004066	0. 56
	NT2RP2004081	F-NT2RP2004081	0. 94
	NT2RP2004098	F-NT2RP2004098	0. 39
	NT2RP2004124	F-NT2RP2004124	0. 75
40	NT2RP2004152	F-NT2RP2004152	0. 54
	NT2RP2004165	F-NT2RP2004165	0. 68
	NT2RP2004187	F-NT2RP2004187	0. 92
	NT2RP2004194	F-NT2RP2004194	0. 90
	NT2RP2004196	F-NT2RP2004196	0. 94
45	NT2RP2004226	F-NT2RP2004226	0. 80
	NT2RP2004239	F-NT2RP2004239	0. 63

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	NT2RP2004240	F-NT2RP2004240	0.86
	NT2RP2004242	F-NT2RP2004242	0.94
	NT2RP2004245	F-NT2RP2004245	0.92
	NT2RP2004316	F-NT2RP2004316	0.33
5	NT2RP2004364	F-NT2RP2004364	0.75
	NT2RP2004365	F-NT2RP2004365	0.43
	NT2RP2004366	F-NT2RP2004366	0.32
	NT2RP2004373	F-NT2RP2004373	0.60
	NT2RP2004389	F-NT2RP2004389	0.94
10	NT2RP2004392	F-NT2RP2004392	0.93
	NT2RP2004399	F-NT2RP2004399	0.36
	NT2RP2004463	F-NT2RP2004463	0.43
	NT2RP2004476	F-NT2RP2004476	0.80
	NT2RP2004538	F-NT2RP2004538	0.94
15	NT2RP2004551	F-NT2RP2004551	0.47
	NT2RP2004568	F-NT2RP2004568	0.73
	NT2RP2004594	F-NT2RP2004594	0.64
	NT2RP2004600	F-NT2RP2004600	0.53
	NT2RP2004602	F-NT2RP2004602	0.33
20	NT2RP2004614	F-NT2RP2004614	0.34
	NT2RP2004655	F-NT2RP2004655	0.77
	NT2RP2004664	F-NT2RP2004664	0.94
	NT2RP2004689	F-NT2RP2004689	0.83
	NT2RP2004710	F-NT2RP2004710	0.94
25	NT2RP2004743	F-NT2RP2004743	0.32
	NT2RP2004768	F-NT2RP2004768	0.53
	NT2RP2004791	F-NT2RP2004791	0.64
	NT2RP2004799	F-NT2RP2004799	0.42
	NT2RP2004802	F-NT2RP2004802	0.88
30	NT2RP2004816	F-NT2RP2004816	0.78
	NT2RP2004841	F-NT2RP2004841	0.61
	NT2RP2004861	F-NT2RP2004861	0.32
	NT2RP2004897	F-NT2RP2004897	0.67
	NT2RP2004933	F-NT2RP2004933	0.94
35	NT2RP2004936	F-NT2RP2004936	0.53
	NT2RP2004959	F-NT2RP2004959	0.78
	NT2RP2004978	F-NT2RP2004978	0.86
	NT2RP2004985	F-NT2RP2004985	0.42
	NT2RP2004999	F-NT2RP2004999	0.55
40	NT2RP2005000	F-NT2RP2005000	0.40
	NT2RP2005001	F-NT2RP2005001	0.94
	NT2RP2005003	F-NT2RP2005003	0.44
	NT2RP2005012	F-NT2RP2005012	0.73
	NT2RP2005018	F-NT2RP2005018	0.43
45	NT2RP2005022	F-NT2RP2005022	0.34
	NT2RP2005037	F-NT2RP2005037	0.94

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	NT2RP2005038	F-NT2RP2005038	0. 56
	NT2RP2005116	F-NT2RP2005116	0. 94
	NT2RP2005126	F-NT2RP2005126	0. 69
	NT2RP2005139	F-NT2RP2005139	0. 94
5	NT2RP2005140	F-NT2RP2005140	0. 32
	NT2RP2005144	F-NT2RP2005144	0. 39
	NT2RP2005147	F-NT2RP2005147	0. 32
	NT2RP2005159	F-NT2RP2005159	0. 52
	NT2RP2005162	F-NT2RP2005162	0. 86
10	NT2RP2005168	F-NT2RP2005168	0. 53
	NT2RP2005204	F-NT2RP2005204	0. 94
	NT2RP2005227	F-NT2RP2005227	0. 53
	NT2RP2005239	F-NT2RP2005239	0. 91
	NT2RP2005270	F-NT2RP2005270	0. 72
15	NT2RP2005276	F-NT2RP2005276	0. 41
	NT2RP2005287	F-NT2RP2005287	0. 44
	NT2RP2005288	F-NT2RP2005288	0. 82
	NT2RP2005315	F-NT2RP2005315	0. 79
	NT2RP2005358	F-NT2RP2005358	0. 94
20	NT2RP2005393	F-NT2RP2005393	0. 41
	NT2RP2005436	F-NT2RP2005436	0. 45
	NT2RP2005441	F-NT2RP2005441	0. 88
	NT2RP2005453	F-NT2RP2005453	0. 59
	NT2RP2005457	F-NT2RP2005457	0. 56
25	NT2RP2005464	F-NT2RP2005464	0. 72
	NT2RP2005465	F-NT2RP2005465	0. 40
	NT2RP2005472	F-NT2RP2005472	0. 42
	NT2RP2005490	F-NT2RP2005490	0. 52
	NT2RP2005495	F-NT2RP2005495	0. 94
30	NT2RP2005496	F-NT2RP2005496	0. 52
	NT2RP2005498	F-NT2RP2005498	0. 74
	NT2RP2005509	F-NT2RP2005509	0. 55
	NT2RP2005520	F-NT2RP2005520	0. 54
	NT2RP2005525	F-NT2RP2005525	0. 41
35	NT2RP2005539	F-NT2RP2005539	0. 94
	NT2RP2005540	F-NT2RP2005540	0. 32
	NT2RP2005549	F-NT2RP2005549	0. 79
	NT2RP2005555	F-NT2RP2005555	0. 63
	NT2RP2005557	F-NT2RP2005557	0. 79
40	NT2RP2005600	F-NT2RP2005600	0. 76
	NT2RP2005605	F-NT2RP2005605	0. 56
	NT2RP2005620	F-NT2RP2005620	0. 66
	NT2RP2005622	F-NT2RP2005622	0. 37
	NT2RP2005635	F-NT2RP2005635	0. 87
45	NT2RP2005637	F-NT2RP2005637	0. 94
	NT2RP2005640	F-NT2RP2005640	0. 87

